

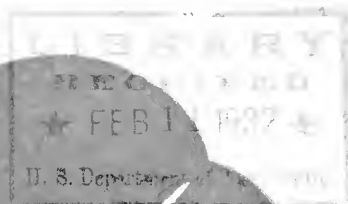
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**South 120-122 Howard Street
Spokane, Washington**

Vegetable Seed Trials

FEB 1 1932

1932--THE INLAND SEED CO.--1932

Seed Time and Harvest

How quickly time flies! In the early days of Spring we are interested in the preparation of our garden and fields for the reception of seeds and plants that are soon to be planted. Our interest increases as we watch and wait for the tiny leaf or growth to appear above ground, and continues to increase with the growth and perfection of the fruitage. Sometimes the planter is disappointed in results secured, which may be on account of non-fertilized soil, improper care or inferior seeds.

SEED IMPORTANT

There have been a great many changes in the manner of conducting business in the past few years, but The Inland Seed Co. has not in any way changed or departed from its ever careful selection of its seed and continues to exercise the same painstaking supervision that it has always done in order to supply its many customers with the best seeds procurable. The Inland Seed Co. firmly believes that the best seeds are not any too good, and that the careful observing planter will conclude that he is better served when he makes his *Seed* purchases from a reliable Seed House with a reputation of supplying seeds of a very high standard of quality.

It is possible for the planter to fertilize most effectually, to give the utmost care to the growing crop, yet these will avail little unless the seeds planted have been of a high quality both as to purity and germination.

Giant Golden Bantam Corn

Do not be misled by representations of other varieties being as good as Giant Golden Bantam, or of similarity in names. We supplied our present grower with the original seed a few years ago.

Secure Your Supply From the Original Seed

During the Spring of 1931 we sold more of the Giant Golden Bantam than in any previous year, thus sustaining our claims in a very substantial way.

Draw your attention to our greatly reduced prices on oil heated and coal burning brooders.

THE INLAND SEED CO.

FREE INFORMATION BUREAU

We are glad to record that our customers have used this freely, and we wish to state that it has been a source of great pleasure and profit to ourselves, as frequently we have been obliged to investigate before answering, and this fact accounts for the delay of a few days in answering some inquiries. This has been established for the use of our customers and the more it is used the better we are pleased. It is entirely free.

The Inland Seed Company's

1932 Seed Catalogue 1932

Seeds

ARTICHOKE TUBERS

Planted and cultivated the same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, and great productiveness. One lb., postpaid, 20c; at purchaser's expense, 50 lbs., \$2.00; 100 lbs., \$3.50.



ASPARAGUS

PALMETTO—This variety is very desirable on account of its earliness, bright green color, presenting an attractive appearance, excellent flavor and productiveness.

MARY WASHINGTON—This asparagus, which has been selected by the United States Department of Agriculture, Washington, D. C., has proven to be nearly rust free. The shoots are thick and heavy. They are long and straight with closely folded tips. The color is rich, dark green, tinted darker at the tips. It is a heavy yielder of exceptionally fine flavor.

POSTPAID

	Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.
Palmetto	\$0.05	\$0.15	\$0.25	\$0.45	\$0.75	\$1.25
M. Washington ...	.10	.25	.35	.60	1.00	1.75

Beans

Bush, Wax Poddod

GOLDEN WAX IMPROVED—This is one of the earliest and best dwarf sorts for the home market and private gardens. The plants are erect, compact, and very productive. The pods are of medium length, four and one-half to five inches, nearly straight, broad, flat golden yellow, very fleshy and waxlike.

BLACK WAX, PROLIFIC—This improved strain of Black Wax we offer under this name is exceptionally productive, very hardy, reliable and of the best quality. The pods are of medium length four and one-fourth to four and one-half inches, borne well up from the ground, curved cylindrical and fleshy.

Bush, Green Poddod

REFUGEE, EXTRA EARLY—A very early, green-poddod variety, with medium-sized green, fleshy pods; seed drab, freely spotted with dark purple. The vines are smaller and of more upright growth, and leaves a little larger than the late Refugee. The pods are round and make an attractive appearance when shipped to market. Their color is lighter than most of the green beans.



Green Stringless

STRINGLESS, GREEN—Very desirable dwarf green podded snap sort for the home garden and market. The plants are large, spreading and productive. The pods are medium green, five to six inches long, cylindrical, and remain crisp and tender long.

POSTPAID

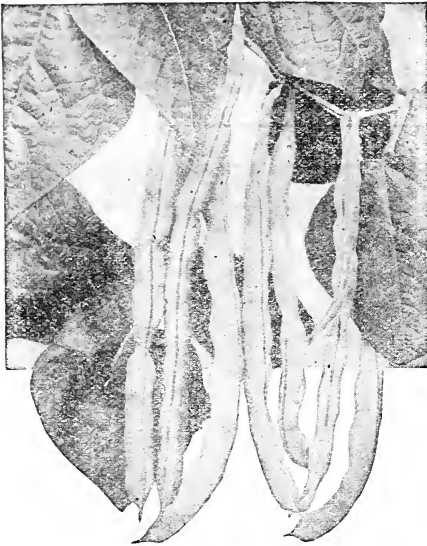
	1 lb.	5 lbs.	10 lbs.
Bush Beans.....	\$0.35	\$1.40	\$2.75
Not prepaid .....	.25	1.25	2.50
	25 lbs.	50 lbs.	100 lbs.
Not prepaid.....	\$5.75	\$11.00	\$20.00

Pole, Green Poddod

ITALIAN OR ROMAN—Vines vigorous, green pods streaked with red. Bean large, oval, cream-colored splashed with red.

KENTUCKY WONDER—Also known as Old Homestead. We believe this variety is the most practically useful of the green podded pole beans suitable for use as snaps. It is early, very prolific, with showy pods which are of most excellent quality. The vines are vigorous, climbing well, bearing pods in large clusters. The pods are medium light green, very long, often reaching 9 or 10 inches, curved and twisted, nearly round and very crisp when young, becoming very irregular and spongy as the beans ripen. Seed long, oval, slightly flattened, dun colored. One of the very best early pole snap beans for the home garden or market.

LAZY WIFE—The pods are produced in large clusters in great abundance and are from four to five inches in length. Dark green, rather flat but broad, quite thick, fleshy and entirely stringless, retaining their brittleness until fully developed; of unusually rich flavor.



Kentucky Wonder

Pole, Wax Podded

KENTUCKY WONDER—Yellow podded, bears a large quantity of rich, golden-yellow pods from the time the plant is about half-grown until it is killed by frost in the fall.

	1 lb.	5 lbs.	10 lbs.
Kentucky Wonder .....	.35	1.40	2.75
Italian .....	.35	1.40	2.75
Not prepaid .....	.25	1.25	2.50
25 lbs.		50 lbs.	100 lbs.
Not prepaid.....	\$5.75	\$11.00	20.00
	1 lb.	5 lbs.	10 lbs.
Ken. W. Wax.....	.40	1.90	3.50
Lazy Wife.....	.40	1.90	3.50
Not prepaid .....	.35	1.75	3.25

Limas, Bush

BURPEE'S—This is a little the earliest maturing of the large seeded Limas. The plants are vigorous and productive. The pods are medium green, very large, about five inches long.

HENDERSON'S—A dwarf form of the small white Limas, valuable because of its extreme earliness, hardiness and productiveness.

Limas, Pole

EARLY JERSEY—This variety is one of the earliest of the pole Limas. Pods are four inches in length and contain three and four large beans each.

	1 lb.	5 lbs.	10 lbs.
All Lima Beans.....	\$0.40	\$1.90	\$3.50
Not prepaid .....	.35	1.75	3.25

BROAD WINDSOR—(*Vicia Faba*)—Sometimes called a tree bean because of its upright growth, bearing its pods at the axil of every leaf. It is sometimes called Horse Bean. Cooked as a shell bean it is very good for table use. Lb., 45c; 5 lbs., \$2.00; 10 lbs., \$3.50.

Ornamental

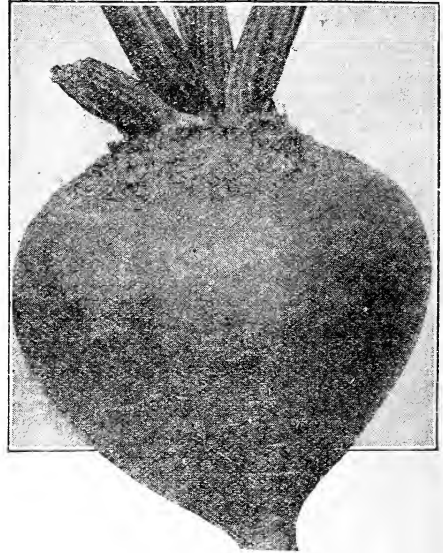
SCARLET RUNNER—Ornamental and useful. The vine is graceful, flowers are of a bril-

liant scarlet, and the beans are of an excellent quality, either when shelled or in a dry state. Oz., 10c; 2 oz., 15c; ¼ lb., 25c; ½ lb., 35c; 1 lb., 60c, postpaid; at purchaser's expense: 1 lb., 50c.

Field

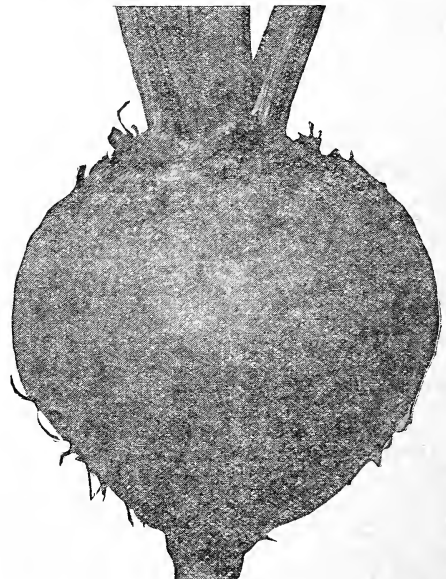
NAVY—Write for prices, stating quantity wanted.

Beets



Detroit

DETROIT DARK RED—The tops are small and upright in growth. The roots are medium sized, globular or nearly round, very smooth and



Wonder

of dark blood red color. The flesh is deep vermillion red, zoned with a lighter shade of red.

BLOOD TURNIP, EDMANDS—An extra selected stock of Blood Turnip. The roots are dark red and nearly round or slightly flattened. The flesh is deep red, zoned with lighter shade, sweet, crisp and tender.

EGYPTIAN, CROSBY'S—One of the earliest and best strains of Beets. The roots run uniform in size and shape, have small tops, just right for early bunching. The flesh is deep red, sweet, tender, and of excellent quality.

HALF LONG BLOOD—An old and popular variety, especially desirable for fall and winter use, as it does not become woody, and keeps better than the turnip shaped varieties. The root is smooth and handsome and the flesh is a bright red and of good quality.

WONDER—The earliest of any Beet in existence. It is of perfect globe shape with small tap roots. The color of the flesh is very dark red, which makes it splendid for pickling purposes. In flavor it can not be beat. It is tender, sweet and juicy, retaining its crispness.

POSTPAID

All Table Beets

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
	\$0.05	\$0.15	\$0.25	\$0.35	\$0.55	\$0.85	\$6.00



Swiss Chard

SWISS CHARD OR SEA KALE—This variety does not produce an edible root like the regular garden beet, but is highly esteemed for the broad, white leaf stalks and midribs, which are cooked and served in the same manner as asparagus, making a most delicious vegetable. The leaves are also cooked like spinach.

Swiss Chard

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
	\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$7.50

Mangel Wurtzels

DANISH SLUDSTRUP—Considered best of all mangels, having been awarded first class certificate. In color it is reddish-yellow and of a distinct type. It contains the largest per cent of nutriment found in any sort. It is very hardy, grows well above ground and is easily pulled.

GIANT HALF SUGAR—Is very much more valuable for feeding purposes than the old sorts, it being very much richer. In addition to this, the size and form have been improved until it yields as much per acre as the best mangels.

GOLDEN TANKARD (Improved)—A special feature is the rich, deep yellow color of the flesh, differing in this respect from other Mangels, surpassing them in milk-producing qualities. The roots are of large diameter, tapering quickly at the bottom, which is quite broad, with only a small tap-root.

KLEIN WANZLEBEN—This variety has proved to be a very valuable sort, on account of its richness in saccharine matter, thus demonstrating its superiority for feeding purposes. Roots rather long, slender growing into the ground. A great yielder.

MAMMOTH LONG RED—This is the heaviest cropping and largest of all mangels. The roots grow from one-half to two-thirds above the surface and are frequently two or more feet in length by six inches in diameter. Dark, richly colored foliage, skin dark red, flesh white with veined rings of rose-pink.

POSTPAID

All Mangels

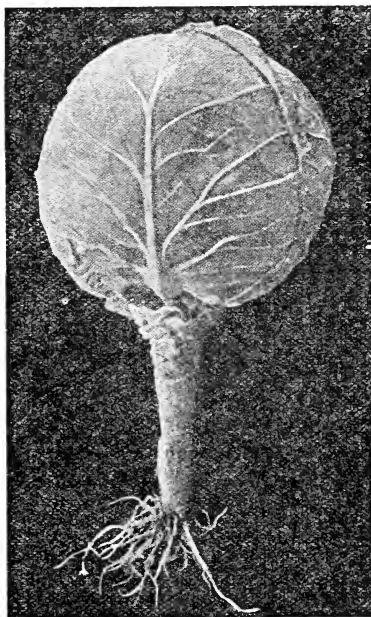
1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.15	\$0.25	\$0.35	\$0.50	\$2.50	\$4.50

Brussels Sprouts

Cultivated for the small heads that grow in considerable numbers from the main stem. It is a delicacy much esteemed by some. Sow in seed bed middle of spring and transplant and manage as winter cabbage. Pkt., 5c; oz., 35c; 2 oz., 60c; ¼ lb., \$1.00.

Cabbage

First Early



Copenhagen Market

CLOVER LEAF COPENHAGEN MARKET—This superb new cabbage is undoubtedly without a rival as the finest large round-headed early cabbage in cultivation. The type is thoroughly fixed, the heads maturing all at the same time. The heads average about 10 pounds, are very solid, with small core and of fine qual-

ity. It matures a little later than the Early Jersey Wakefield, and will give a much heavier yield per acre than that popular variety. The plant is short-stemmed, the heads being produced almost on the ground level.

EARLY JERSEY WAKEFIELD—The earliest and hardiest heading of extra early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Heads conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit make it the best sort for very early setting.

New Golden Acre

GOLDEN ACRE—This is of recent introduction but has been tested sufficiently so that its real worth has been fully demonstrated. It is similar to the Copenhagen Market, but is a week or ten days earlier, and smaller, in fact ideal in size for marketing. The heads are very uniform, round, firm and of superior quality. It matures nearly all at the same time which is of great advantage to the market gardener. On account of its hardness it will stand in the field a long while before bursting and is a most excellent shipper.

Late



Danish Ball Head

CLOVER LEAF HOLLAND OR DANISH BALL HEAD—Short stemmed. Most remarkable late cabbage yet produced. This is one of the hardiest cabbages in cultivation, and endures both frost and drought that would destroy other varieties. The plants are hardy and compact; leaves very smooth, but thick; heads of medium size, round and very solid, being the hardiest heading cabbage and of the very best quality. Matures quite late, keeps well and is considered by many the best cabbage to keep until spring.

DUTCH, LATE, FLAT—A low-growing variety; heads large, bluish green, round, solid, broad and flat on top; an excellent fall and winter variety; a good keeper, and a sure header.

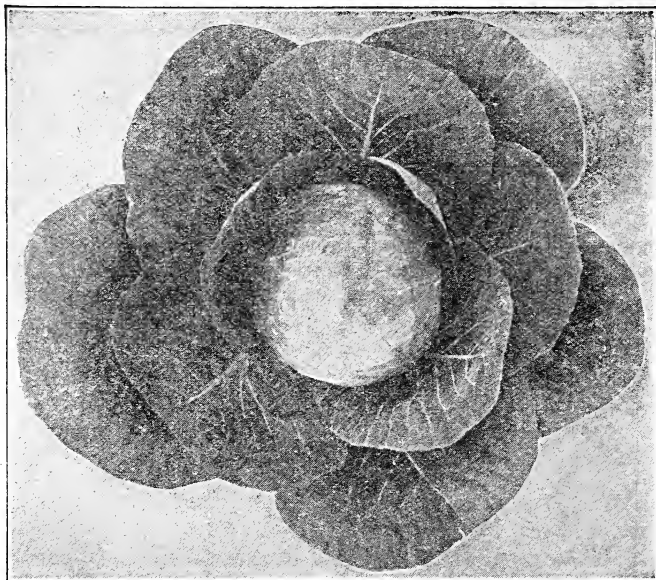
DRUMHEAD SAVOY—The best variety of Savoy or crumpled leaf cabbage. The leaf is vigorous, with short stem, has densely crumpled leaves and when touched by frost is sweet, delicate and delicious. The head is large and very solid.

ROCK RED—Best red sort, much used for pickling.

Chinese or Celery Cabbage

The most essential requirement for successfully raising Chinese cabbage is cool weather. Where the summers are warm, sowing must be delayed until early August.

PE-TSAI—The leaves when young are crimped, of light green color. The plant as it matures becomes more upright and forms heads



Golden Acre

much like Cos Lettuce. The inner leaves blanch an attractive light yellow or creamy white.

POSTPAID

Cabbage.	Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.
Copenhagen	\$0.05	\$0.25	\$0.45	\$0.80	\$1.50	\$2.50
E. J. Wakefield .....	.05	.20	.40	.70	1.20	2.00
Ball Head .....	.05	.25	.45	.80	1.50	2.50
Flat Dutch .....	.05	.20	.40	.70	1.20	2.00
Savoy .....	.05	.30	.60	1.00	1.75	3.00
Rock Red .....	.05	.30	.60	1.00	1.75	3.00
Golden Acre .....	.10	.40	.75	1.25	2.25	4.00
Pe-Tsai .....	.10	.40	.70	1.25	2.25	4.00

Carrots

Carrots—Table

CHANTENAY—Early, scarlet color, stump rooted, broad, thick shoulder, heavy cropper. Fine quality. In shape and appearance it takes a place between the Oxheart and the Danvers Half Long.

DANVERS HALF-LONG, IMPROVED—A first-class carrot for all soils. The root is of a rich, dark orange color and grows very smooth and handsome. Very productive, producing as much tonnage to the acre as the longer field sorts, and is much easier harvested.

LONG ORANGE, IMPROVED—A deep orange colored variety. Heavy cropper. Especially adapted for light, deep soils where it can be easily dug, as the roots penetrate farther into the soil than other varieties. Grows fairly thick and entirely under ground.

NANTES OR CORELESS—This is frequently called and sold as coreless. This however is not

correct as it is not entirely coreless, but much nearer to it than any other variety. The flesh is red and very sweet, a stump rooted type growing about six inches in length.

OXHEART OR GUERANDE—A thick carrot, five or six inches long and very blunt at the lower extremity. It grows more rapidly and the root attains a weight of more than a pound.

SCARLET HORN, EARLY—A very early variety. Recommended for the very early market and family garden. Texture fine; very delicate in flavor.

POSTPAID

Table Carrots

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.10	\$0.20	\$0.40	\$0.55	\$0.75	\$3.50	\$7.00

Nantes and Scarlet Horn

\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.50
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Carrots—Stock

WHITE BELGIAN—Grows one-third out of the ground. Root pure white, green above the ground. The flesh is of deep yellow color, tender and of excellent flavor.

YELLOW GIANT OR SAN JOSE CHAMPION—This carrot is a half-long variety, with an immense broad shoulder. The roots penetrate less than one-half the depth into the ground. Color a bright yellow.

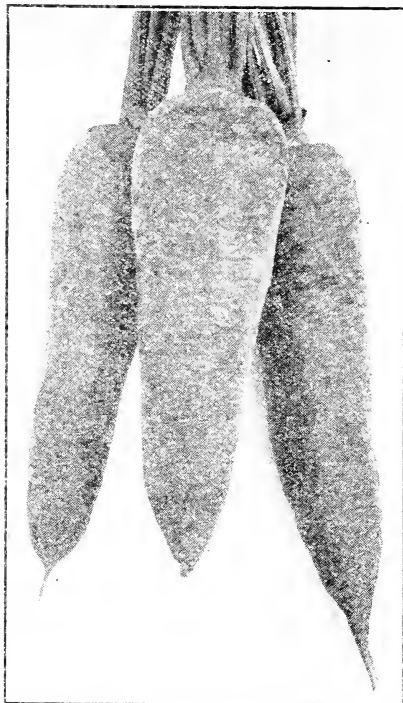
POSTPAID

Stock Carrots

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.10	\$0.20	\$0.35	\$0.50	\$0.75	\$3.50	\$7.00

CHICORY—Witloof or French Endive: This variety produces leaves with wide ribs or leaf stalks which form a cluster or head.

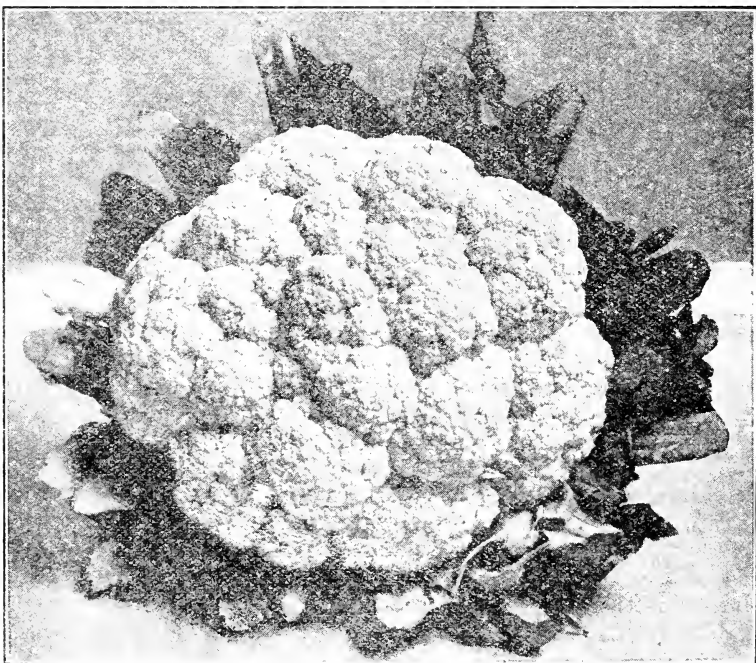
Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.60; lb., \$3.00.



Danvers Half Long

CAULIFLOWER—Cauliflower, although one of the most delicious vegetables, is but little grown except by professional gardeners because of the erroneous notion that it is so difficult to grow that only skilled gardeners can produce it.

It should be borne in mind that cauliflower will not head up good in hot, dry weather, and hence the sowing should be so regulated as to bring it to maturity either before the hot summer weather sets in or not until the cooler weather of the fall. After the heads begin to form, draw the leaves over and pin or tie them together to protect the heads from the sun and keep them white.



Snowball

CLOVER LEAF SNOWBALL (Best imported Strain)—This is an improved extra early strain of dwarf, compact growth. Under favorable circumstances nearly every plant will make a fine, solid head of good size. It is valuable for both early and late.

DANISH GIANT OR DRY WEATHER—(Best Imported Stock)—Large leaved, with pure white compact heads. It is truly a first-class cauliflower and is specially adapted to dry locations and to resisting the effects of drouth. Two weeks later than the Snowball, when planted at same time.

POSTPAID

	Pkt.	1/2 oz.	1 oz.	2 oz.	4 oz.
Snowball	\$0.10	\$1.25	\$2.25	\$4.00	\$7.00
Dryweather .....	.10	1.50	2.75	5.00	9.00

Celery

Early

GOLDEN PLUME—An outstanding early variety. Plants of strong growth with thick, heavy stalks, and a well-blanching solid heart. Being of superior quality, it is considered by many gardeners to be the very best early celery. Crisp, tender with good storing qualities.

WHITE PLUME—A very popular variety on account of its naturally white leaf stalks, which require less blanching than the other kinds. It is early, a fine market sort and the variety mostly used by gardeners.

POSTPAID

	Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.
W. Plume	\$0.05	\$0.35	\$0.60	\$1.00	\$1.75	\$3.00
G. Plume .....	.10	.60	1.00	1.75	3.00	5.50
G. S. Blanching ..	.10	.60	1.00	1.75	3.00	5.50
Celeriac .....	.10	.35	.60	1.00	1.75	3.00

Late



GOLDEN SELF-BLANCHING—It is of a rich golden tint when ready for the table; very handsome and of excellent quality.

CELERIAC OR TURNIP-ROOTED—Grown exclusively for its roots, which are turnip-shaped, very smooth, tender and narrow-like. The roots are cooked and sliced; used with vinegar they make an excellent salad.

Corn—Sweet

First Early

GOLDEN MARKET—This is a cross between Golden Bantam and a white variety. Those who have grown this state that it is earlier than Golden Bantam and that stalks are more vigorous and taller. Ears larger and of a very high quality. Color golden yellow.

PEEP O' DAY—For earliness, flavor, sweetness and productiveness it is ahead of any other early white sweet corn. It will prove a money-maker for the market gardener, and a valuable addition to our list of corn for our short western summers.

WHITE CORY EXTRA EARLY

One of the earliest varieties. It succeeds well where the seasons are short, and can be recommended for general planting. Ears six inches long, with eight rows of broad grains.

EARLY MINNESOTA

This deservedly popular variety is one of the best second early sorts for the market and the home garden. The stalks are about six feet high, bearing one or two ears well covered with husks. The ears are about eight inches long, eight rowed; kernels very broad, white, sweet and tender, not shrinking much in drying.

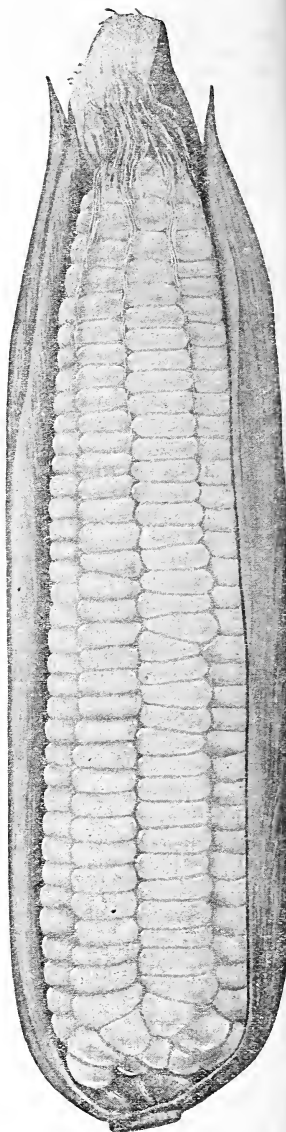
GOLDEN BANTAM

Of extreme hardness, this can be planted earlier than any other sweet corn, and will then produce the earliest supply of ears for the table. Stalks grow from 3 1/2 to 4 feet in height and produce one or two good ears on each stalk. The ears are about six inches in length, completely filled with eight rows of golden-yellow grains, extending to the rounded tip. The flavor is distinct, exceptionally rich and sugary, the sweetest of all 'Sugar Corn.'

HOWLING MOB

This variety has become very popular on account of its earliness, and its possessing the sweet flavor of the later varieties. The stalks are of strong, vigorous growth, four and one-half to five feet in height, have abundant foliage and generally produce two fine ears to each stalk. The ears measure seven to nine inches in length, with twelve or fourteen rows of good-sized pearly-white grains.

Golden Bantam

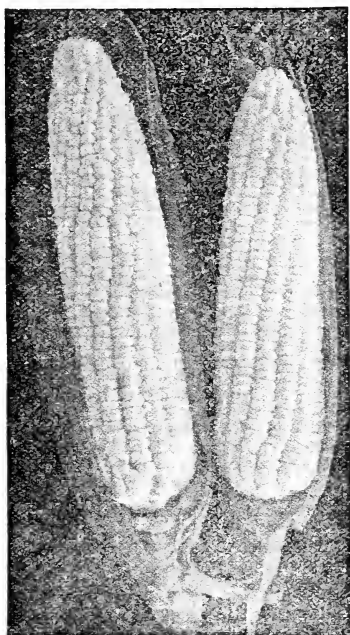


Medium Early

BANTAM EVERGREEN—This variety is a cross between Gold Bantam and Stowell's Evergreen, maturing about ten days later than Golden Bantam, and while possessing the bright golden color of the Golden Bantam it retains the fine flavor of Stowell's Evergreen. As the ears are about one-third larger than Golden Bantam it is a most excellent variety to plant for a second early crop.

COUNTRY GENTLEMAN—A favorite second early or main-crop variety with all private gar-

deners for its tenderness, delicacy, small, deep grains and sweetness. The ears are of fair size, frequently three or four to the stalk.



Early Evergreen

EARLY EVERGREEN—This fine variety yields large, handsome, ten and twelve rowed ears, averaging about nine inches in length. It is very sweet, has a fine flavor and remains tender a remarkably long time.

GIANT GOLDEN BANTAM—As is well known Golden Bantam Corn is the result of a cross of two other varieties, and has been the most popular corn on the market up to the present time. By careful selection, and cross breeding, all the good traits of Golden Bantam has been retained, and in addition a larger ear has been produced, therefore the Giant Golden Bantam corn has the color, flavor and productiveness of the regular Golden Bantam combined with much larger ears, making it the most popular variety of yellow sweet corn. It comes on the market about a week later than the Golden Bantam.

Late

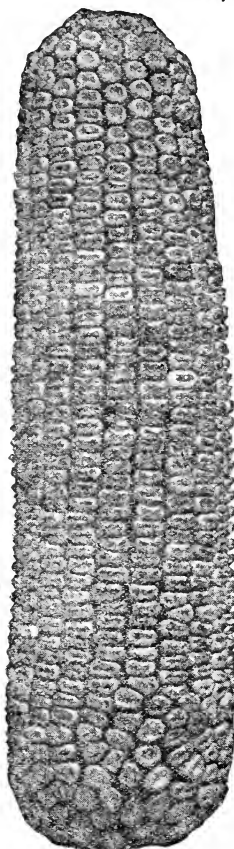
STOWELL'S EVERGREEN—The standard main crop variety, much used for the home garden, market or canning. It is hardy and productive, very tender and sugary, remaining a long time in condition suitable for boiling. This corn is distinguished by the large ear, the long, deep kernels, its rich, sugary flavor and its long keeping qualities. The ears are about seven to eight inches long, fourteen to twenty rowed.

	POSTPAID		
	1 Lb.	5 Lbs.	10 Lbs.
Sweet Corn not specially quoted	\$0.30	\$1.40	\$2.50
Not prepaid	.25	1.25	2.25
G. G. Bantam, prepaid	.35	1.65	3.00
Not prepaid	.30	1.50	2.75

	NOT PREPAID		
	25 Lbs.	50 Lbs.	100 Lbs.
Sweet Corn not specially quoted	\$5.00	8.75	\$15.00
G. G. Bantam	6.25	11.25	20.00

Corn—Field

Dent, Yellow



Yellow Dent

MINNESOTA No. 13—The commanding points of excellence which place Minnesota No. 13 Corn at the head of all yellow dent varieties are its earliness and its productiveness. The ears are of handsome appearance, bearing 16 to 20 rows of bright rich yellow kernels. The ears average eight inches in length. The stalks grow to a height of seven feet.

MINNESOTA KING—We regard this corn in some respects as the most valuable early corn for the Inland Empire. It seems to possess a faculty of growing right along and making a crop under conditions that would ruin other varieties. The Minnesota King is a half yellow dent; the kernels are very broad and are a rich golden color.

PRIDE OF THE NORTH—This is a standard early variety of corn in the East, but is not sure to mature here. From the fact that it produces a large amount of fodder and being early enough to get in proper condition for ensilage, it has taken the lead over all other corns for this purpose.

Dent, White

SILVER KING NO. 7—This variety has given almost universal satisfaction to dairy men that wanted a reliable corn for silo purposes.

It is an early variety, therefore is valuable if the dairyman or farmer wants matured ears.

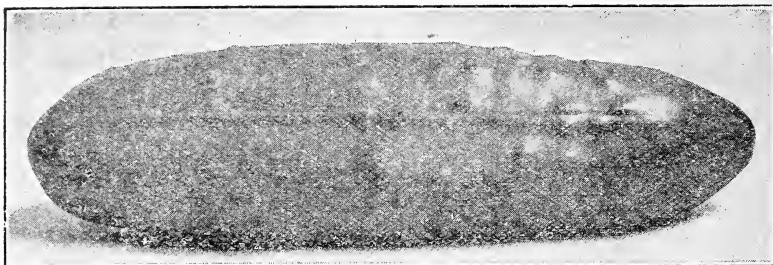
It is of medium size, deep grained and a heavy yielder.

Please note that the prices made on field corn are estimates only and may be changed. If wanting quantity, please write stating variety and quantity wanted, otherwise full value will be forwarded for the full amount of money received.

	POSTPAID		
	1 lb.	5 lbs.	10 lbs.
All Field Corn	\$0.20	\$0.70	\$1.20
Not prepaid	.15	.65	1.00
	25 lbs.	50 lbs.	100 lbs.
Not prepaid	\$2.00	\$3.50	\$6.00

Pop

WHITE RICE—The best corn for popping and for the general market; early, white pointed kernels. 1 lb., 20c, postage paid. At purchaser's expense, 10 lbs., 90c.



Long Green

Cress

PEPPER GRASS (Curled)—The leaves, when young, have a warm, pungent taste, and are used as a salad, either alone or mixed with other salad plants. As they are milder and more tender when young, the seed should be sown at intervals of 10 to 15 days, making the first sowing as soon as the ground can be prepared.

WATER—A delicate, pungent salad plant, very agreeable alone or mixed with other salads. Entirely distinct from common cress, thriving only where its roots are submerged.

	Pkt.	POSTPAID		1/4 lb.
		1 oz.	2 oz.	
P. Grass	\$0.05	\$0.20	\$0.35	\$0.60
W. Cress .....	.10	.40	.75	1.25

Cucumbers

BOSTON PICKLING—This is a very productive variety that is extensively grown for pickles. The vines are vigorous. The fruits are bright green, of medium size, very smooth and symmetrical. The flesh is crisp and tender.

DAVIS PERFECT—This cucumber has an ideal shape and a beautiful dark green color. Its eating qualities are unsurpassed, both because of its fine flavor and its small number of seeds.

EARLY CLUSTER—A short, prickly variety; usually growing in clusters. Is a prolific bearer, and one of the earliest; flavor excellent.

EVERBEARING—This is not only a very early variety but is also extremely prolific. If the fruit is kept gathered, vines will continue in bearing throughout the season. The fruit

is of medium size and rich dark green color, averaging from four to five inches in length.

KLONDIKE—White Spine Type. Used principally for long distance shipping, as the deep green color holds extremely well. The ends taper slightly, fruit smooth and symmetrical but not as long as some other long varieties. It is very valuable on account of its earliness. Usual size 7x2½ inches.

LONG GREEN, IMPROVED—The vines are very vigorous and productive. The fruit is very long, growing frequently from 12 to 15 inches, and are uniformly slender and of a beautiful dark green color. The large warts and spines are well distributed over the surface.

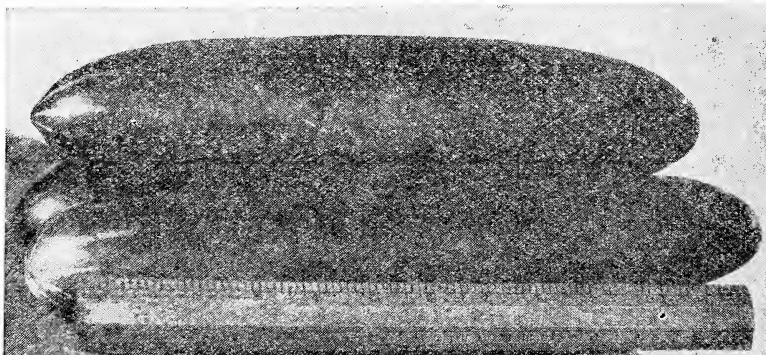
SHORT GREEN, OR EARLY FRAME—A vigorous and productive variety producing fruit of medium size and regular form; flesh crisp and tender; excellent for the table or pickling.

WHITE SPINE, IMPROVED—One of the best sorts for trade use, fruiting early and abundantly; fruit uniformly straight and handsome; light green, with a few white spines.

Longfellow

This new and greatly improved cucumber belongs to the white spine family, therefore is inclined to turn white as it approaches maturity, but never shows any trace of yellow. Its color is exceptional, being fully equal to cucumbers grown under glass, about the only criticism that can be made against the Longfellow is that if conditions are not right, there is liable to be some curved or crooked ones.

	Pkt.	1 oz.	2 oz.	1/4 lb.	1/2 lb.	1 lb.	5 lbs.	10 lbs.
POSTPAID Cucumbers								
	\$0.05	\$0.15	\$0.30	\$0.50	\$0.75	\$1.25	\$5.75	\$10.00
Longfellow								
	\$0.10	\$0.35	\$0.60	\$1.00	\$1.50	\$2.50		



Longfellow

Egg Plant

NEW YORK IMPROVED—This is a standard variety, both for market and home garden; a favorite anywhere.

BLACK BEAUTY—This beautiful egg plant is 10 days earlier than the New York Improved. The fruit is broad and thick, of most attractive form, and does not fade or change to a lighter color at the blossom end. The fruits set freely, and are ready for market early, so the crop can be gathered before danger of frost.

POSTPAID

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.

Both Egg Plants \$0.10 \$0.60 \$1.00 \$1.75 \$3.00 5.50

Endive

BROAD LEAVED BATAVIAN—Leaves are broad, thick, green, more or less twisted and waved with white mid-ribs. It forms large hearts, which when blanched form one of the best winter salads. Crisp, tender and fine flavor.

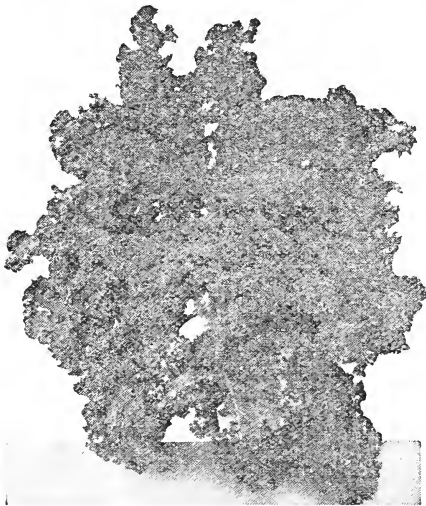
LARGE GREEN CURLED—A fine market sort; tender, green leaves; blanch white; hardy.

POSTPAID

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.

Both Endives.....\$0.05 \$0.20 \$0.30 \$0.50 \$0.75 \$1.25

Kale or Borecole



DWARF GREEN CURLED SCOTCH—Plant low and compact, with large, bright, deep green leaves, curled, cut and crimped until the whole plant resembles a bunch of moss.

TALL GREEN CURLED SCOTCH—Produces an abundance of dark green, curled leaves. Very hardy.

THOUSAND HEADED—The great demand for this wonderful forage plant proves it to be the most valuable green feed for dairy and stockmen.

POSTPAID

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.

Dwarf and Tall Kale	\$0.05	\$0.20	\$0.30	\$0.50	\$0.75	\$1.25
T. Headed .....	.05	.15	.25	.40	.60	1.00

Garlic

Has a bulbous root, with a strong, penetrating odor and flavor. Belongs to the onion family and cultivated much in the same manner.

Lb., 60c, postpaid.

Kohl-Rabi

The Kohl-Rabi is a vegetable intermediate between the cabbage and turnip, and combines the flavor of each.

EARLY PURPLE—A very desirable sort for forcing or early outdoor planting. Bulbs are of medium size, purple, flesh white. Very early, with small top, the leaf stems being tinged with purple.

EARLY WHITE VIENNA—Is the earliest and best for forcing; is very tender, excellent for table use.

POSTPAID

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb.

Both Kahl-Rabi..\$0.05 \$0.25 \$0.40 \$0.60 \$1.00 \$1.75

Lettuce

Early and Forcing

BIG BOSTON (Seed White)—The leaves are broad, comparatively smooth but wavy at the edge, thin, very hard and crisp. In color they are bright light green, the head slightly tinged with reddish brown. The inner leaves blanch to an attractive greenish white, tinged with light yellow. It heads up under cold weather conditions better than any other variety.



Grand Rapids

GRAND RAPIDS (Seed Black)—As a lettuce for greenhouse forcing this variety undoubtedly stands at the head of the list, being of quick growth, little liable to rot and standing for some days after being ready to cut. This plant is upright and forms a loose head or cluster of large, bright leaves, slightly crimped and blistered and rather thin.

Loosehead or Cutting

BLACK SEEDED SIMPSON—Used for growing under glass or outdoors. The leaves are ruffled and blistered and even the large outer ones are very tender. This curly and thin-leaved variety is uniformly attractive and remains of excellent quality a very long time.

PRIZE HEAD—(Seed white.) A large, non-heading lettuce, most excellent for the home garden. It is too tender, however, to stand shipping. The leaves are finely curled and crumpled, bright green tinged with brownish red, and are very crisp, tender and sweet.

SIMPSON'S EARLY CURLED—(Seed white.) A very extensively used early loose leaved variety. The leaves are light green in color, slightly frilled and much blistered, crisp, sweet and tender. The sort is especially adapted for sowing thickly and cutting when the plants are young.

Heading



Hanson

HANSON—One of the most desirable later summer lettuces. The plant is compact and forms a large, cabbage-like head which remains in condition longer than most heading sorts. The outer leaves are bright yellowish green, broad, somewhat crumpled and frilled at edge and with distinctive midrib. The inner leaves are white, very crisp and sweet.

ICEBERG—Has an unusually solid head. The white main ribs of the leaves curve toward the center, which keeps the interior thoroughly

blanched. It is a quick grower and always crisp and tender.

NEW YORK OR WONDERFUL—We pride ourselves upon the extra fine strain of our New York Lettuce. The mammoth heads are solid, heavy, beautifully blanched to a creamy white with bright green outer leaves. The quality is unsurpassed, being tender, crisp and sweet. The New York is a hardy, rapid grower, deep rooted and resistant to drought; a slow seeder and sure to head.

Cos

PARIS WHITE COS—The Cos Lettuce differs entirely in shape from other varieties, the head being elongated and of conical form, eight or nine inches in height and five or six inches in diameter. The outer coloring of this variety is yellowish green.

Chicken Lettuce

This lettuce furnishes a great amount of green feed and is therefore highly recommended for chicken or rabbit feed. It does not form heads, but produces stalks three to four feet high. The leaves can be pulled from the stalks and it continues to grow and produce more leaves.

POSTPAID

Lettuce							
Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.30	\$0.50	\$0.90	\$1.50	\$6.25	\$10.00

POSTPAID

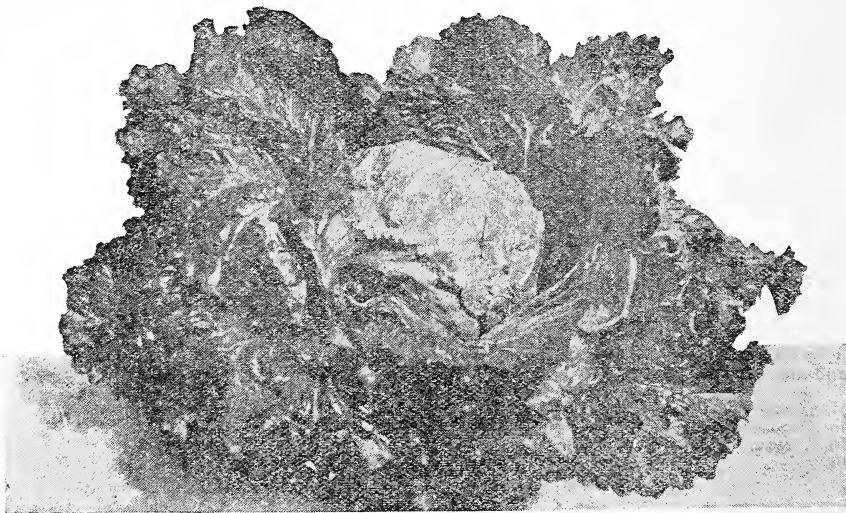
New York							
Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.25	\$0.45	\$0.75	\$1.25	\$2.25	\$10.00	\$17.50

New York No. 12

Seed From Originator

This type has been developed from the standard New York flat-headed type, but is an improvement over the original, being earlier, surer header, and producing larger and more solid heads, and is slower going to seed, and not so liable to sun-scall.

Pkt., 10c; oz., 30c.; 2-oz., 55c.; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.00; 5 lbs., \$13.75; 10 lbs., \$25.00.



New York

Leek

LARGE LONDON, OR SCOTCH FLAG—This leek is generally considered more delicate than the onion for soup, etc. Sow in seedbed middle of spring; when the plants are three or four inches high, transplant them into rows wide enough apart to admit the hoe between them. Pkt., 5c; oz., 25c; 2 oz., 45c; ¼ lb., 75c; ½ lb., \$1.25; lb., \$2.50.

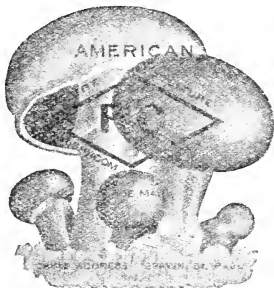
Mushroom Spawn

With intelligent care and good spawn, mushrooms can be made to pay handsomely. They can be successfully grown in a dry cellar or under the benches of a greenhouse, where the temperature can be kept from 50 to 60 degrees.

LAMBERT'S PURE CULTURE

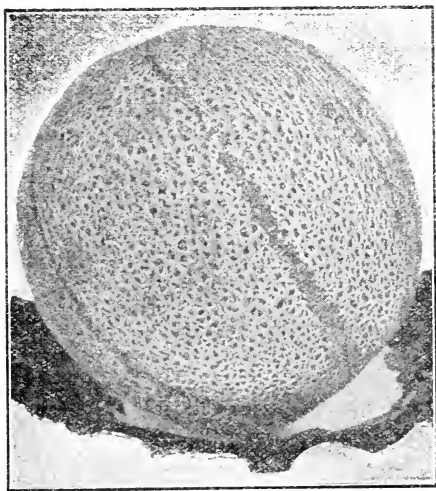
—A new kind of spawn, without doubt the best. It comes in bricks, weighing about 20 ounces. These are broken up into pieces the size of a walnut and put into the bed one foot apart each way. Brick, 45c; 5 bricks, \$2.00, postpaid.

Leaflet on Mushroom culture sent with order if requested.



Muskmelons

Green-Fleshed Varieties



Rockyford

ROCKY FORD OR NETTED GEM—Has attained in an incredibly short time a national reputation. It is of the Netted Gem type, oval in shape, averaging from four and one-half to five inches in length, of a delicious flavor, very fine and smooth grained flesh, of a light green color throughout.

HACKENSACK EXTRA EARLY IMPROVED—A selection from and an improvement on the old Hackensack, and similar in shape and appearance; nearly as large and fully 10 days earlier; one of the finest for market gardeners; quality perfect.

POSTPAID

Rocky Ford and Hackensack

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.30	\$0.50	\$0.75	\$1.25	\$5.00	\$9.00

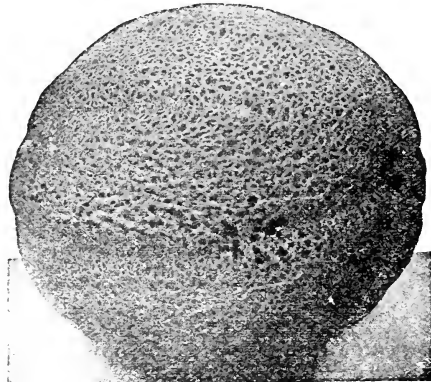
Salmon-Fleshed Varieties

BANANA—A very splendid melon averaging from 20 to 28 inches in length and almost solid. The meat is of a rich salmon color, and has a flavor which is truly delicious. Don't pick the melons until they are thoroughly ripe, as they are then at their best.

EMERALD GEM—This is a variety of excellent quality and of medium size. The skin, white-ribbed, is perfectly smooth and of a deep emerald green color. The flesh is thick and of a deep salmon color, and ripens to the green rind. The flavor is very sweet and luscious.

LARGE YELLOW—The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

OSAGE OR MILLER'S CREAM—The skin is very thin, of a dark green color and slightly jettied. The flesh is of a salmon color, remarkably sweet, extremely thick, and delicious to the rind. It is also very productive. It is a remarkable keeper, and will stand shipping.



Burrell Gem

BURRELL GEM—Burrell's Gem has a tough, thin rind, well arched ribs, covered with a closely interlaced gray netting; shape elongated, being about 4½ inches in diameter by 6 inches long, flesh of a reddish orange, very thick, fine grained and spicy, seed held firmly in a triangular cavity.

POLLOCK 10-25—A popular early melon of the solid netted type, very small seed cavity with thick luscious flesh of genuine salmon tint shading to green near the rind. A prolific yielder and is admittedly the finest salmon-fleshed melon ever introduced.

POSTPAID

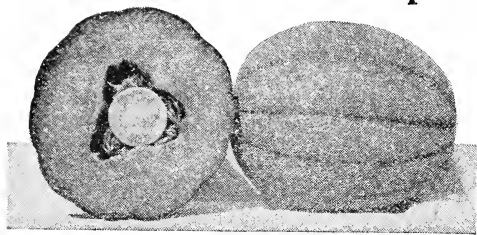
Salmon Fleshed, Musk Melons

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.30	\$0.50	\$0.75	\$1.25	\$5.00	\$9.00

Cassabas

GOLDEN BEAUTY—One of the best cassabas. It is a variety grown extensively for shipment. The fruits are nearly globular, bright yellow with golden tint, with wrinkled skin, six to eight inches in diameter. The flesh is white, very thick, juicy and sweet.

Special Melons



HEARTS OF GOLD—This is an orange-fleshed variety of medium size, ideal as a shipping melon and a desirable mid-season sort for the home garden. The vines are vigorous, blight-resisting and very productive. The rind is thin, yet very firm, so that the melons arrive in perfect condition in distant markets. The flesh is very thick, firm, highly flavored, of fine texture and delicious flavor.

Note the size of the cavity as compared to size of dollar, also the very thin rind.

HALE'S BEST—An extra early salmon tint of remarkable flavor. The seed cavity is small and the attractive salmon tinted flesh is firm. Melons are oblong, well netted and very attractive. It is ten days to two weeks earlier than any other strain of the famous Rockford or Netted Gem variety.

HONEY DEW—Average size six inches in diameter and seven to eight inches in length, weighs five to six pounds. The skin is smooth, with an occasional net, is a creamy yellow when ripe. The flesh is very thick, and very fine grained. The seed cavity is very small.

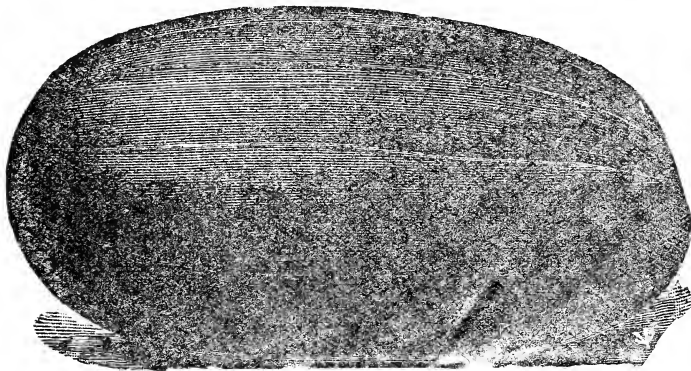
It matures about ten days later than the Rocky Ford, is very prolific and will keep for several weeks if picked a short time before it is fully matured.

POSTPAID

Golden Beauty, Hearts of Gold, Hale's Best, Honey Dew

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb. 5 lbs. 10 lbs.
\$0.10 \$0.20 \$0.35 \$0.60 \$0.85 \$1.50 \$6.25 \$10.00

Watermelons



Kleckley's Sweet

CUBAN QUEEN—A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped, dark and light green.

FLORIDA FAVORITE—Oblong in shape, and growing to a very large size; rind dark, with light green stripes; flesh light crimson, crisp and deliciously sweet.

GEORGIA RATTLESNAKE OR GYPSY—An old and still a popular variety. Large, oblong with decided stripes of light and deep green. A splendid shipper; flesh bright red and of good quality.

FORDHOOK EARLY—This is one of the very earliest grown; of medium size and of excellent quality. Dark green skin mottled with a deeper shade; flesh bright red.

HALBERT HONEY—An exceedingly sweet and deliciously flavored melon, similar in size and shape to Kleckley's Sweet. It is of handsome, long, oval shape, averaging about 18 inches long, and about six inches in diameter.

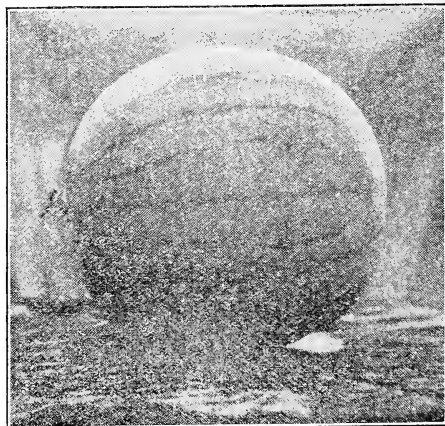
ICE CREAM (Black Seeded)—A little later. Oval in shape, light in color, with a very faint stripe, seeds small and black, flesh bright red with a thin rind and solid meat and a flavor that far surpasses that of any other watermelon. It is crisp and delicious.

PEERLESS—One of the best melons in cultivation. Rind thin, light mottled green. Flesh

KLECKLEY'S SWEET, OR MONTE CRISTO — (White Seeded)—This is one of the best flavored melons in cultivation, and of a shape and color that is extremely desirable. The rind is very dark green, very thin; flesh deep scarlet; fine, and of delicious quality. For the home market and family garden it is decidedly one of the best.

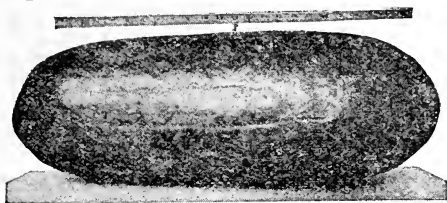
Attractive red color, crisp, sweet and delicious. The heart is large with no core. The appearance and quality of this melon make it desirable for both home and market use.

bright scarlet; solid to the center, sweet as honey.



Ice Cream

IRISH GREY—A distinct and very valuable melon; wonderfully productive; long, thick, uniform. Color of rind, yellowish gray, interwoven with thread-like veins; smooth, marble-like surface almost as hard as the citron. Flesh sparkling bright red.



Tom Watson

TOM WATSON—A large, long melon similar in shape and color to the Kleckley's Sweet and possessing the same delicious flavor and quality, but averaging larger in size and with a tougher rind, making it especially adapted for shipping to distant markets. The vines are vigorous and productive. The flesh is rich red, sweet and tender. Seed white, more or less marked with brown. Excellent shipper.

**POSTPAID
Watermelons**

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$8.00

KLONDIKE—A melon of good size and shape with dark green skin. Fruits show a suggestion of ribbing but are smooth. The flesh is highly colored and of fine quality and flavor. The seeds are small, smooth and black. This melon has become very popular on account of the attractive, bright red interior color, combined with high quality, and the thin but tough rind which stands shipping well.

POSTPAID

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.10	\$0.20	\$0.30	\$0.50	\$0.90	\$1.50	\$6.25	\$10.00

CITRON—For preserving; grows uniformly round and smooth; striped and marbled with light green; flesh white and solid.

Pkt., 5c; oz., 20c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 85c; 1 lb., \$1.50.

Mustard

MUSTARD is used alone as "greens" or with cress as salad. Sow any time in the spring, in rows.

SOUTHERN GIANT CURLED—The leaves are large, light green with tinge of yellow, much crimped and frilled at edges. The plant is upright or slightly spreading in growth.

WHITE ENGLISH—The leaves are comparatively small and smooth, deeply cut or divided and of medium dark green color.

Both varieties of mustard: Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00.

Okra or Gumbo

The long, tender pods of Okra are very delicious when sliced and cooked in soups. While this is its chief use, it is also boiled and served like other vegetables. The dwarf sorts may be planted in hills or in rows about three feet apart. Plant in any good soil about May 15. The pods should be gathered when very young, as they are then very tender.

An early dwarf prolific variety with thick green pods.

DWARF GREEN—Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 60c; 1 lb., \$1.00.

Onions

Brown

AUSTRALIAN—Of medium size, hard and solid. Bulbs very attractive in appearance. Color a clear amber brown. Specially noted as a long keeper.

Red

LARGE RED WETHERSFIELD—This is the standard red variety and a great favorite. The bulbs are large and are flattened yet quite thick. The skin is deep purplish red. The flesh is light purplish white, moderately fine grained, rather strong but of pleasant flavor.

SOUTHPORT RED GLOBE—This most excellent medium early or main crop red variety produces bulbs of medium to large size, ideally globe shaped, with very smooth, glossy surface, very small neck and remarkably beautiful deep purplish red color. The flesh is white, tinged with light purple, mild, very fine grained and tender. It is one of the best keepers and is well adapted for shipping.

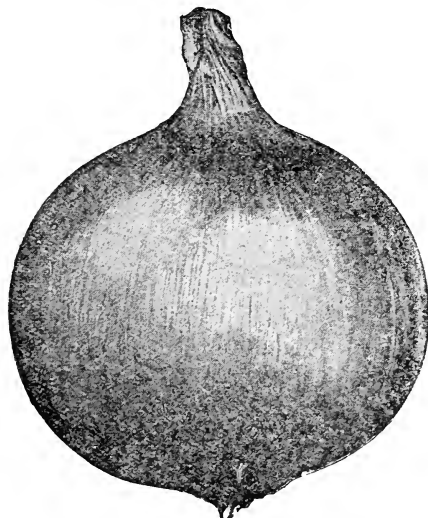
Yellow

BERMUDA IMPORTED—The most widely grown of this variety. Light straw-yellow skin and pure white flesh. Grown very extensively in the Southern States. If planted in fall will mature very early.

DANVERS—YELLOW FLAT—The leading large yellow kind, round, slightly flattened, flesh fine-grained, rather mild, very rich and sweet; one of the best keepers and shippers, and one of the most productive kinds.

MAMMOTH PRIZETAKER—A very handsome late or main crop onion of the largest size and nearly globular in form, usually with shoulder and base slightly sloping. The skin is yellowish brown or light yellow with slight tinge of brown. The flesh is creamy white, very mild, tender and of excellent flavor.

MOUNTAIN DANVERS—This new sort is not as round as Globe Danvers, nor as flat as the Flat Danvers. Color is a beautiful dark yellow, shading to brown. The skin is thick and heavy, which makes it a good keeping and shipping sort. Grown in Colorado, in altitudes which are peculiarly adapted to producing onions of ex-



Yellow Globe Danvers

trema earliness and hardness. It is from two to three weeks earlier than the Yellow Danvers or Yellow Globe Danvers, and is a cross between the Yellow Globe Danvers and the Australian Brown.

DANVERS—YELLOW GLOBE—This onion is the standard winter sort in many markets. The shape is almost globe form and the bulbs are quite large, with thin necks, ripening down well. The skin is a fine brown orange yellow, while the flesh is pure white, solid and of good quality. Its keeping qualities are of the best and its earliness makes it valuable for market.

Sweet Spanish

SWEET SPANISH—A very large globe-shaped light yellow onion with small top, and an exceptionally fine shipper. It is a Spanish variety which has quickly become very popular in many sections of this country. This onion combines flavor and mildness with good keeping qualities, thus making it a desirable and profitable onion to grow.

White

CLOVER LEAF BUNCHING—Do not make the mistake of thinking that all varieties of onions are equally good for bunching. White varieties are always the best, but even in these there is a great difference. This is the very best variety known for bunching. Recommend thick sowing.

PORTUGAL OR AMERICAN SILVERSKIN—One of the leading white sorts, beautiful shape and mild flavor. The bulbs are flat in shape and mature early. Handsome in appearance.

SOUTHPORT GLOBE—The superior quality of this wonderful variety is famed the world over. Its mild, delicious flavor and exceptionally attractive appearance have won great prominence. It is a most beautiful onion, of superb eating quality. Handsome, white globe

shaped, flesh fine and very white, rich and sweet. It is also one of the best keepers of the silver skinned varieties.

POSTPAID

Australian Brown									
Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.		
\$0.05	\$0.20	\$0.40	\$0.70	\$1.20	\$2.00	\$ 8.75	\$15.00		
Red Globe Wethersfield, Y. Danvers, G. Danvers									
\$0.05	\$0.20	\$0.40	\$0.70	\$1.20	\$2.00	\$ 8.75	\$15.00		
Prizetaker									
\$0.05	\$0.25	\$0.45	\$0.85	\$1.50	\$2.50	\$11.25	\$20.00		
M. Danvers, Bunching, Silverskin, S. W. Globe									
\$0.05	\$0.25	\$0.45	\$0.85	\$1.50	\$2.50	\$11.25	\$20.00		
Sweet Spanish									
\$0.10	\$0.30	\$0.55	\$1.00	\$1.75	\$3.00	\$13.75	\$25.00		
Bermuda									
\$0.10	\$0.35	\$0.65	\$1.25	\$2.00	\$3.50	\$16.25	\$30.00		

Onion Sets

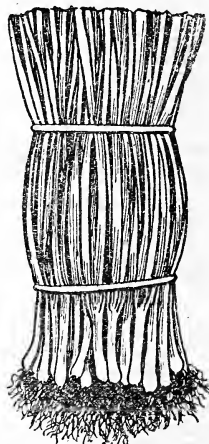
BOTTOM SETS—Are grown from seed that has been sown too thick to attain a large size. The small onions thus obtained are planted out, and are ready in a short time to pull as green onions for the table or bunched for the market.

YELLOW—Lb., 20c, postpaid; at purchaser's expense, 10 lbs., \$1.25. For large quantities, write for prices, stating quantity wanted.

*Bermudas and Sweet Spanish,
reduced prices.*

Onion Plants

Onion plants are being extensively used in some districts for producing large early matured onions, as matured onions can be secured from the plants much sooner than from seed. The plants are good keepers so that there is little or no danger of them not growing. Besides, they are one of the easiest plants to grow. It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. Do not plant too deep. Plants are put up in bundles of about 100 and sixty bundles to a crate. Count not guaranteed.



Prices, Postpaid

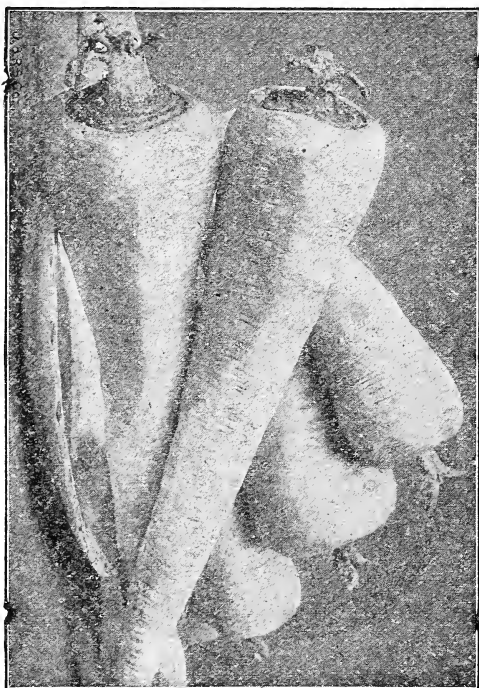
2 bundles	\$0.45
3 bundles .....	.60
6 bundles	1.00
10 bundles	1.50
Crate 60 bundles.....	6.00

Crate weighs about 30 lbs.
Add postage to crate price.

Not less than two bundles sold. We are growing quite an acreage in the Northwest, and quotations made are on these plants. In case of excessive winter killing when we might be compelled to secure some plants in Texas, price would be higher.

Parsnips

IMPROVED GUERNSEY (Improved Half-Long)—A greatly improved and wonderfully fine strain of Guernsey parsnip. It is a very heavy cropper. The roots are very smooth, the flesh is finely grained and of most excellent quality.



Parsnips

LONG SMOOTH OR HOLLOW CROWN (Abbott's Improved Long Sugar or Long White Dutch Parsnip)—A great cropper; tender, sugary and considered the best for general cultivation. Parsnips are improved by remaining exposed to the frost.

POSTPAID
Both Parsnips

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.35	\$0.55	\$0.90	\$4.00	\$7.00

Parsley

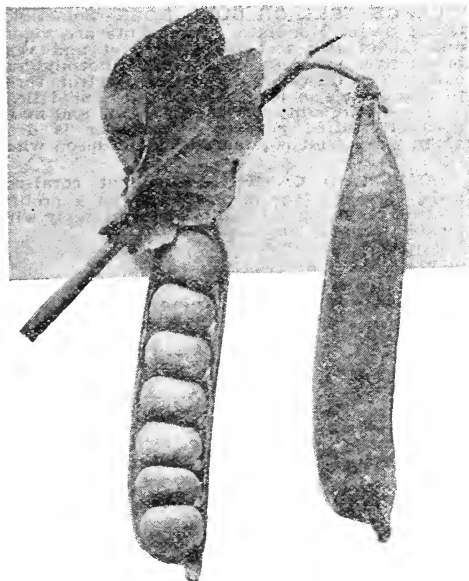


Very useful for flavoring soups, meats and garnishment. The green leaves are used for flavoring.

EXTRA DOUBLE CURLED—A compact grower, finely cut and much curled variety of bright green color. Pkt., 5c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 75c; 1 lb., \$1.25.

Peas, Garden

Extra Early



American Wonder

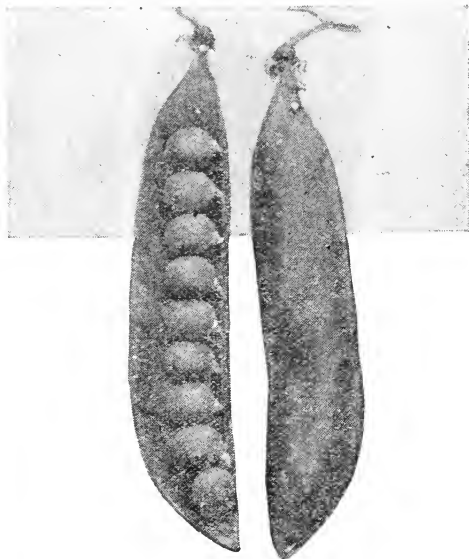
AMERICAN WONDER—The earliest and best of the wrinkled sort. Has stout, branching vines about 18 inches high, and covered with well-filled pods, containing sweet, tender and well-flavored peas.

ALASKA OR EARLIEST OF ALL—Earliest and best of all of the blue smooth varieties. A smooth, blue pea, which in evenness of growth of vine and early maturity of pods is unequalled

by any other pea. Vines two to two and one-half feet high.

LITTLE GEM, McCLEAN'S—The vines grow about 18 inches in length, producing well-filled pods of from 2¼ to 3 inches long. The peas are green, wrinkled, sweet and delicious.

LITTLE MARVEL—Height 18 to 20 inches. An excellent dwarf sort for the market and home garden. The pods average a little longer than those of Premium Gem, are more attractive in shape and color and the peas are of superior quality. The vines are sturdy, and heavily set with straight, deep green pods, square ended at the bottom and nearly three inches in length. Seed large, green, wrinkled.



Blue Bantam

BLUE BANTAM—Is unequalled for combination of extreme earliness, superb quality, and unusual productiveness. The dwarf vigorous vines average 18 inches in height and carry really enormous crops of large, deep bluish-green pods. The pods measure four to four and one-half inches long and are tightly packed with eight to ten large, deep bluish-green peas of most luscious flavor.

Second Early

GRADUS or PROSPERITY—The vine grows about 30 inches. The pods are of a light green color and measure 4 inches or more in length.

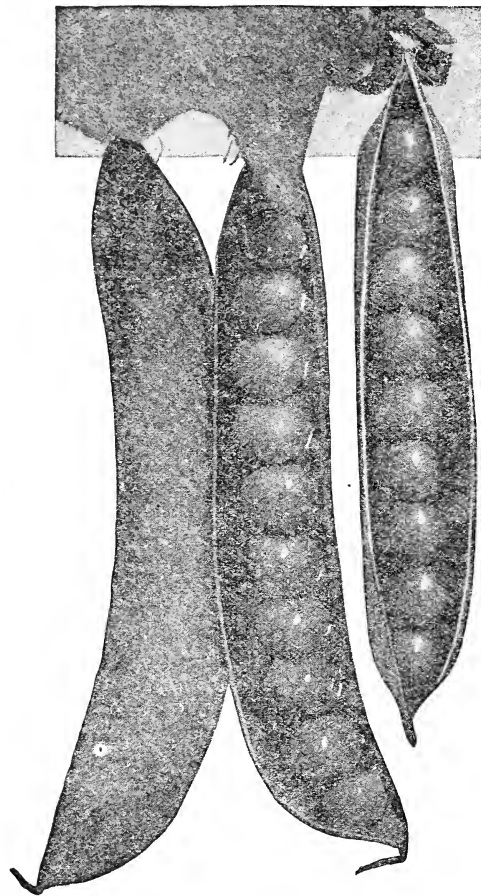
LAXTONIAN—An early pea of fine size and exceptional quality. The vines are dwarf, growing from 15 to 20 inches, but the pods are from 4 to 4½ inches long, of bluish green color, and pointed at the end. Each pod contains from seven to ten peas of very large size and delicious flavor. The vines are vigorous, of fine dark green color.

TELEPHONE, DWARF—Produces handsome long pods. A great favorite with our market gardeners. Immensely productive, of the finest quality and excellent sugary flavor; vines very strong, growing from 18 to 24 inches high. The pods are of large size, filled with large, delicious peas.

Late

STRATAGEM IMPROVED or POTLATCH—A very fine large podded pea; the pods are of immense size filled with large, dark green, wrinkled peas of the finest quality; vine of me-

dium height, but very stocky, with very broad, light green leaves and bearing an abundance of large handsome pods.



Dwarf Telephone

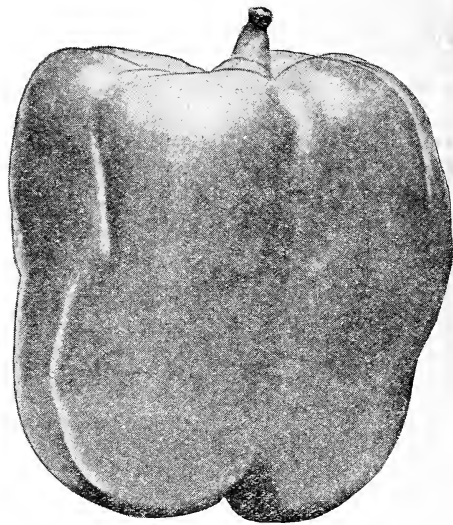
Tall

TELEPHONE—The tall Telephone still remains a great favorite and one of the leading varieties. The vines grow from 4 to 5 feet and are strong and vigorous, producing large pods of about four inches in length, of a deep green color and well filled with large peas of a most luscious flavor.

	1 lb.	5 lbs.	10 lbs.
All Varieties	\$0.30	\$1.40	\$2.50
Not prepaid	.25	1.25	2.25
	25 lbs.	50 lbs.	100 lbs.
All Varieties	\$5.00	\$8.75	\$15.00

Peppers

CALIFORNIA WONDER—Vigorous growing plants bear a heavy yield of handsome blocky fruits which reach a size of 5 inches in length and 4 inches across. The thickness of flesh alone, which is often $\frac{3}{8}$ of an inch, places it above all other peppers. There is not the least



California Wonder

trace of pungency in the flesh and it is crisp and juicy.

CHINESE GIANT—An enormous fruiting variety, averaging 12 to 15 inches in circumference. Flesh is thick, tender, mild and sweet, and is unexcelled for salad or stuffed as mangoes. When ripe the peppers are a rich, glossy scarlet.

LARGE BELL OR BULL NOSE—Sometimes called Sweet Mountain. The plants are vigorous, about two feet high, compact and very productive, ripening their crop uniformly and early. The fruits are large, growing from three to four inches in length, with thick, mild flesh of excellent quality for use in salads and mangoes or stuffed peppers. The color is deep green when fruit is young, bright crimson when ripe.

LONG RED CAYENNE—Brilliant coral-red pods, three or four inches long, and a prolific bearer; very pungent and used very largely with pickles when green.

RUBY KING—Very large and attractive. The plants are about two and one-half feet high, vigorous, compact and productive. The fruits are often four to four and one-half inches long.

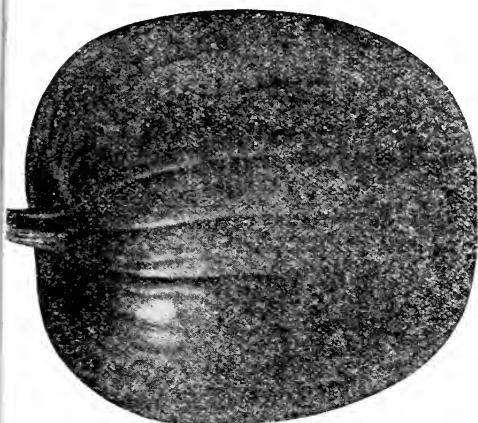
	Pkt.	1 oz.	2 oz.	4 oz.
Bull Nose	\$0.10	\$0.50	\$0.90	\$1.50
California Wonder	.15	1.00	1.80	3.25
Chinese Giant	.10	.75	1.25	2.25
Long Red Cayenne	.10	.50	.90	1.50
Ruby King	.10	.50	.90	1.50

Peanuts

The peanut thrives and produces best on a light, sandy, fertile soil with a good clay subsoil. It possesses a long tap-root which extends deep into the earth. Lb., 50c, postpaid.

See Pages 65, 66 for reduced prices
on coal and oil heated brooders.

Pumpkins



Connecticut Field

CONNECTICUT FIELD—A productive, large, orange-colored field pumpkin, usually grown for stock feeding, but it makes good pies.

SUGAR—This variety is small, but of most excellent quality for pies. Fruits deep orange, eight to ten inches in diameter, round or somewhat flattened and slightly ribbed. Flesh rich, deep yellow, fine grained and very sweet.

WINTER LUXURY—Smooth, rounded form, with thin, tender skin of a rich golden yellow, closely netted. The fruits grow to good size and are very attractive. The flesh is very thick, sweet, fine-flavored, and excellent for pies. The vines make a vigorous growth and the fruit keeps well.



Early Sugar

MAMMOTH PRIZE—The largest pumpkin grown; has attained a weight of 235 pounds. If you wish to see just how large a pumpkin can grow, try the Mammoth Prize. The quality is excellent.

POSTPAID

Connecticut Field, Sugar

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$4.50	\$ 8.00

Mammoth Prize, Winter Luxury

\$0.05	\$0.20	\$0.30	\$0.50	\$0.75	\$1.25	\$5.65	\$10.00
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Radishes

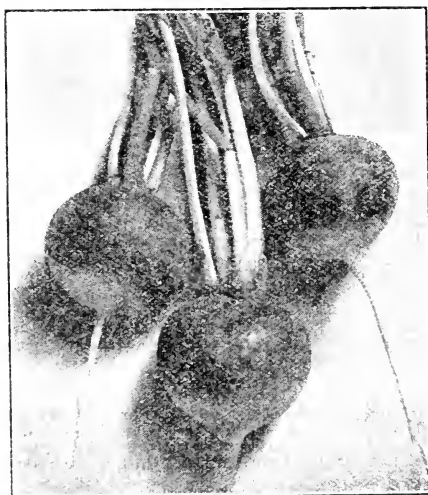
Turnip-Rooted, Early



Crimson Giant

CRIMSON GIANT—The largest early scarlet turnip-shaped radish. A very early radish, double the size of any of the other early turnip-shaped type, but notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp and juicy, and of the mildest flavor. Excellent for both forcing and open ground.

SCARLET GLOBE—Similar in form to the Scarlet Turnip-Rooted, but much darker in color; flesh white, very crisp and tender, top small, well adapted for growing in frames.



Scarlet White Tipped

SCARLET, WHITE TIPPED—The favorite variety for outdoor cultivation; medium size, uniform shape; color bright scarlet, with white tip, which makes it most attractive. It grows quickly; flesh white, crisp and of the best quality.

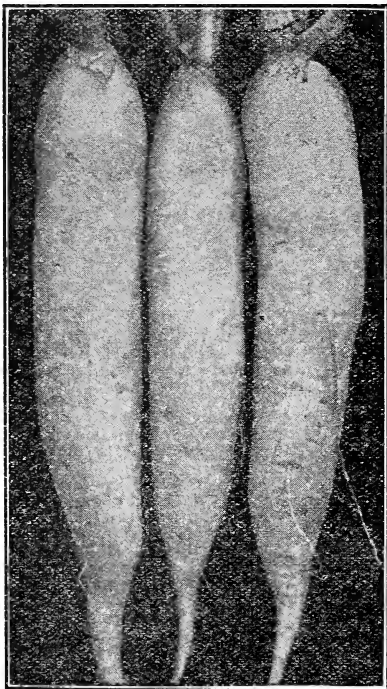
Olive Shaped, Medium Early

FRENCH BREAKFAST, OR HALF-LONG WHITE TIPPED—Medium size, of quick

growth, crisp and tender; terminates more abruptly than the Half-Long Scarlet, lower end of tap root white.

Long, Late

CHARTIER, IMPROVED—Roots long, tapering rather abruptly and attaining a very large size. Of rapid growth, it is soon ready for the table, remaining crisp and tender until fully grown. Color, scarlet above, shading into white at the tip. Flesh white and mild flavored.



WHITE ICICLE

ICICLE, WHITE—The finest of the pure white varieties. They are long and slender and clear, pure white, making them very attractive when on sale and on the table. It is crisp and tender both when young and until it attains a large size, thus remaining in condition for use for considerable time.

LONG SCARLET, RED—The leading variety either for the family or market garden. From six to eight inches long, standing nearly half above the ground; bright scarlet, smooth, crisp, tender and mild.

Winter

BLACK SPANISH, LONG—Very hardy and good for winter use. Will keep good all winter. The roots, which present a rusty, black appearance, are large, firm and not liable to become pithy.

CHINA ROSE—One of the best fall and winter varieties. Half-long shape; upper part bright crimson, shading to white. Flesh white, firm, tender and of superior quality.

CALIFORNIA MAMMOTH, OR WHITE CHINA—Very large and cylindrical, terminating abruptly with little tap-root; mild and tender, and keeps well all winter. The skin and flesh are of a transparent white.

POSTPAID
All Radishes

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.15	\$0.25	\$0.40	\$0.60	\$1.00	\$3.75	\$6.50

Rhubarb

VICTORIA OR MAMMOTH—Very large; the finest cooking variety. Pkt., 5c; oz., 25c; 2 oz., 40c; ¼ lb., 75c; ½ lb., \$1.25; 1 lb., \$2.25.

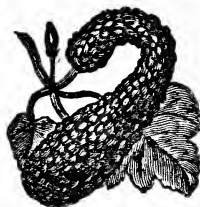
Salsify

Vegetable Oyster

MAMMOTH SANDWICH ISLAND—Of superior quality. Pure white. Very meaty and of fine flavor. Grows uniformly large. Pkt., 5c; oz., 30c; 2 oz., 50c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.50.

Squash

Summer



Summer Crookneck

CROOKNECK, EARLY YELLOW—An early prolific kind having a solid curved neck; the skin is yellow, thin, hard and very warty, flesh tender and of good quality.

GIANT YELLOW STRAIGHTNECK—This is bred from the yellow crookneck and retains the warty, creamy, golden skin and fine quality of the parent stock, but is a great improvement over the old type. Plants are bushy and productive.

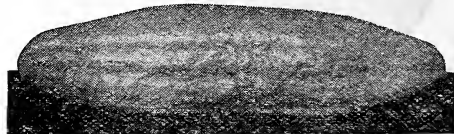
BURPEE'S BUSH FORDHOOK—Of true bush growth with short thick fruits of remarkable quality. They may be grown for both summer and winter use. The fruits are 6 to 8 inches long, slightly ridged, with a smooth, thin, light lemon-yellow skin. The flesh is sweet and delicious.

BUSH SCALLOP, EARLY WHITE—This is the well known, very early, somewhat flattened scalloped bush squash. The color is creamy white with comparatively smooth surface. The vines are vigorous and very productive. This variety is also known as Patty Pan or Cymling.

COCOZELLE—Also known as Italian Vegetable Marrow. The oblong fruits measure from 12 to 16 inches in length. Color dark green marbled with yellow and dark green stripes. Very productive. Unsurpassed in richness of the cooked product, which is of distinct aromatic flavor.

POSTPAID
Summer Squash

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.30	\$0.45	\$0.75	\$1.25	\$5.25	\$9.25



Banana

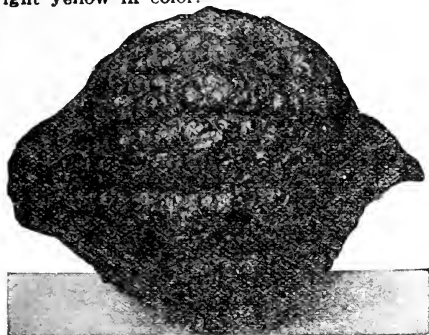
Winter

BANANA—Grows from one to two feet in length. Flesh firm and solid, of beautiful orange-yellow, and excellent quality. Rind or shell smooth and grayish-green color. A good keeper.

CHILI MAMMOTH—Attains an enormous size, often reaching a weight of 200 pounds, and

not infrequently weighs 300 pounds. Despite its size, its flesh is rich and fine flavored. It is especially desirable for stock feeding and exhibition purposes.

DELICIOUS—Delicious is a fall and winter variety. Medium size. The fruit is moderately hard, usually dark green, but sometimes lighter in color and mottled, and are without any hard shell. The flesh is thick, very fine grained and bright yellow in color.



Warty Hubbard

HUBBARD, CHICAGO WARTY—One of the best of the winter squashes. The vines are vigorous and very productive. The fruit is large, heavy and warty, with a very hard shell. The skin is uniformly dark bronze green. The flesh is bright orange-yellow, fine grained, thick, dry and richly flavored. This squash can be kept in good condition until spring.

HUBBARD GOLDEN—They are wonderfully long keepers and can be held over in good condition for spring use. The shell is moderately warty, hard, strong and of a beautiful orange-red color, except for a bit of olive-green on the blossom end. The flesh is deep orange, dry and richly flavored.

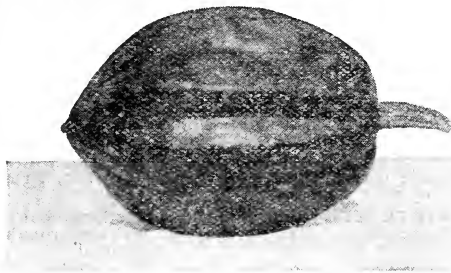


TABLE QUEEN, OR KITCHENETTE OR ACORN—A small acorn-shaped, very dark green squash, about 6 inches long and 4 inches in diameter. When fully ripe the rind turns to a bright orange color, but the squashes can be used before ripening, just as well as after.

Winter Squash—Postpaid

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.20	\$0.30	\$0.45	\$0.75	\$1.25	\$5.25	\$9.25

Spinach

DENMARK, KING OF—The leaves are thick, stand well after cutting and are of good quality.

NEW ZEALAND—Unlike the common spinach in type in that it thrives during hot weather and in any soil, rich or poor. The plant becomes very large and spreading. The leaves are comparatively small, broad and pointed. Plant three or four seeds in hills two feet apart each way. Pick the leaves from the stem, cooking these and you will have delicious greens all summer.



Long Standing

LONG STANDING—An improved variety slow going to seed, and perhaps the best for general use.

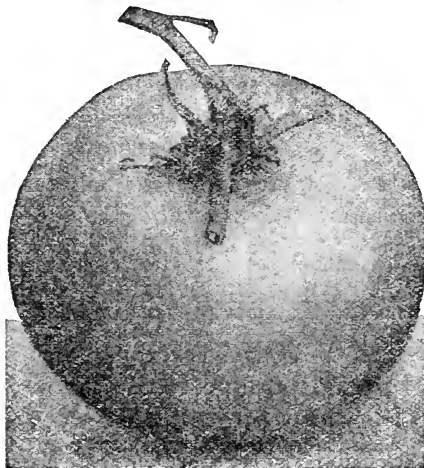
THICK LEAVED, IMPROVED—A variety which grows very rapidly, forming a cluster of large, very thick, slightly savoyed leaves of fine color and quality when cooked. Best for market gardeners.

POSTPAID

All Spinach

Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.	5 lbs.	10 lbs.
\$0.05	\$0.10	\$0.15	\$0.25	\$0.35	\$0.55	\$2.25	\$4.00

Tomatoes



The Burbank Tomato

THE BURBANK TOMATO

"By far the earliest, smoothest, solidest, most productive, and best of all early tomatoes; resists wilt and other tomato diseases better than most others.

"Fruit, bright crimson; thick, solid, heavy, smooth, firm, medium to large in size; superior quality, unusually heavy and continuous bearer throughout the season; best keeper and shipper.

BONNIE BEST—A week later than Earliana, but with larger, smoother and sweeter fruits and also surpassing same in productiveness, as the vines bear continuously throughout the season. The fruits are very large, handsome, very solid and deep through. Of bright scarlet color, ripen right up to the stem without any cracks

or green core. Flesh thick, with comparatively few seeds and of sweet flavor. A good shipper.

CHALK'S EARLY JEWEL—The large, handsome fruits are very solid and deep through, being almost round or ball shaped. Color is brightest scarlet, ripening right up to the stem without any cracks.

EARLIANA, SPARKS'—The earliest large and smooth. The most perfect of all tomatoes. Of large, uniform size and beautiful red color. Quality almost beyond praise. A most vigorous grower and heavy bearer.

JOHN BAER—An extra early scarlet fruited variety of superior merit. The vines are very hardy and exceptionally productive. The fruits are the largest of the extra early sorts and are most attractive in color. They are nearly round, smooth, firm and of excellent quality.

MARGLOBE—This new main crop or mid-season is claimed to be a most resistant variety and was introduced by the U. S. Dept. of Agriculture. A scarlet fruited variety of medium size, smooth, solid and deep from stem to blossom, vines making medium to heavy growth, fruit setting in clusters from 5 to 7 and growing from 6 to 8 ounces. It is a cross between the Marvel and Globe and seems to have retained the best characteristics of both. The flavor is midway between the acid and non-acid sorts.

STONE—Fine for main crop, very large; color bright scarlet; very smooth, ripening up to the stem without a crack; exceedingly solid and firm fleshed; an excellent shipper; quality the very best.

Small Varieties

GROUND CHERRY OR HUSK—Plants of low, spreading growth and immensely productive. The small yellow fruits are each enclosed in a husk or covering. When ripe the fruits are an inch in diameter, bright yellow and of very sweet flavor; highly esteemed for preserving.

YELLOW PEAR—The name denotes shape, also color. It is a rich, clear, yellow color and is one of the very best for preserving.

	POSTPAID					
	Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb.
B. Best	\$0.05	\$0.40	\$0.75	\$1.25	\$2.00 \$3.50
C. E. Jewel05	.40	.75	1.25	2.00 3.50
S. Earliana05	.40	.75	1.25	2.00 3.50
J. Baer05	.40	.75	1.25	2.00 3.50
Marglobe10	.60	1.00	1.75	2.75 5.00
Stone05	.35	.60	1.00	1.75 3.00
Y. Husk10	.60	1.00	1.75	---
Y. Pear10	.60	1.00	1.75	---
Burbank10	.60	1.00	1.75	2.75 5.00

TOMATOES

Specially Selected Earliana and Bonnie Best

These are hand-picked, very carefully rogued, and the entire crop is planted for seed purposes only, no by-products used.

This stock yields much heavier, produces more even, smooth fruit than ordinary stock. It has proved its superiority by actual tests and comparisons made by our very best gardeners.

Pkt.	Oz.	2 Oz.	¼ lb.	½ lb.	1 lb.
	\$0.15	\$0.85	\$1.50	\$2.50	\$4.50 \$8.00

Turnips

ABERDEEN, YELLOW—Round, medium size, light yellow; produces a large crop; flesh very firm, tender and sweet.

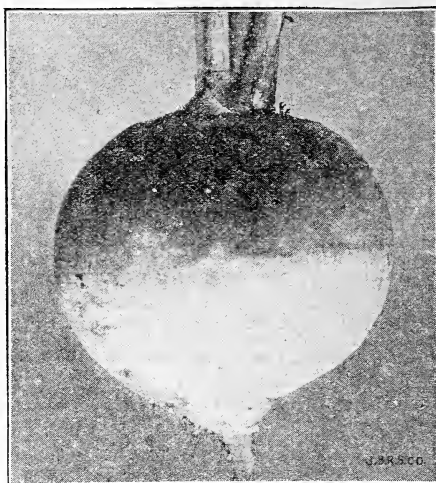
COWHORN—Sometimes called Long White is slightly crooked, pure white, except a little shade of green at the top. Grows half out of the ground.

EARLY FLAT WHITE DUTCH, STRAPPED LEAVED—A leading white-fleshed variety, of medium size. The flesh is firm, but tender, and of a superior rich, buttery flavor.

GOLDEN BALL—Or Orange Jelly. Globe shaped, yellow fleshed, smooth, attractive in appearance. Small top, flesh firm, crisp and of excellent quality.

MILAN, WHITE—The earliest of all. The earliest turnip and the best quality in its class. A fine, snowy-white color. The skin is so smooth and neat as to seem polished. The foliage is short. Size medium, and the flesh is white, tender and smooth grained.

PURPLE TOP, STRAPPED LEAVED, EARLY—One of the best and most universally grown; small, erect top, round, flat; purplish red above; white underneath; flesh firm, but very tender and sweet.



Purple Top White Globe

PURPLE TOP WHITE GLOBE—A perfect globe shape, with smooth, white skin; flesh pure white, firm and crisp. Purple above ground.

SNOWBALL—A perfectly globe shaped, white skinned turnip. The flesh is fine grained, firm and of very delicate flavor. Very early.

WHITE EGG—Egg-shaped, perfectly smooth, pure white variety, with small top and rough leaves. It grows half out of the ground.

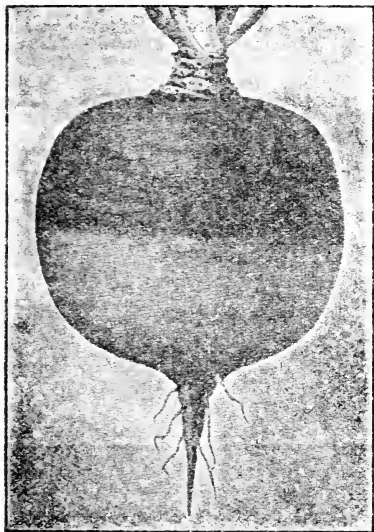
	POSTPAID					
	Pkt.	1 oz.	2 oz.	¼ lb.	½ lb.	1 lb. 5 lbs. 10 lbs.
	\$0.05	\$0.15	\$0.25	\$0.35	\$0.50	\$0.85 \$3.75 \$6.50

See Page 14 for reduced prices on Bermuda and Sweet Spanish Onion plants.

See Page 7 for description of Giant Golden Bantam Corn.

Rutabagas OR SWEDES

YELLOW SWEDE OR RUTABAGA—Shape oblong, dull reddish color above ground, but yellow underneath; is harder than the common turnip and will keep till spring.



Danish Purple Top

BANGHOLM PAJBJERG (Improved Danish Purple Top)—The roots are of large size, slightly tankard shaped, with small neck and few or no side roots. The skin is yellow with purple top. The flesh is yellow, sweet and solid.

POSTPAID
Both Rutabagas

Pkt. 1 oz. 2 oz. ¼ lb. ½ lb. 1 lb. 5 lbs. 10 lbs.
\$0.05 \$0.10 \$0.20 \$0.35 \$0.50 \$0.75 \$3.50 \$6.50

Herbs

CARAWAY—Grown for seeds; used for flavoring. Pkt., 10c; oz., 25c.

CATNIP OR CATMINT—Leaves and young shoots for seasoning. Pkt., 15c; oz., 75c.

CORIANDER—Seeds used in the manufacture of liquors, in confectionery and culinary preparations. Pkt., 10c; oz., 25c.

DILL—Seeds have an aromatic odor and pungent taste. Pkt., 10c; oz., 20c; 2 oz., 30c; ¼ lb., 45c; ½ lb., 65c; 1 lb., \$1.00.

MARJORAM—Sweet; leaves and shoots used for seasoning. Pkt., 10c; oz., 40c.

SAGE—One of the most extensively used herbs for seasoning; hardy perennial about fifteen to eighteen inches high. Plant very branching; flowers usually blue, sometimes pink or white; leaves grayish green, oval, wrinkled. Pkt., 10c; oz., 75c; ¼ lb., \$2.50.

SUMMER SAVORY—Used for flavoring soups. Pkt., 10c; oz., 40c.

THYME—Leaves and young shoots used for seasoning; a tea is made from leaves, a remedy for headache. Pkt., 10c; oz., \$1.00.

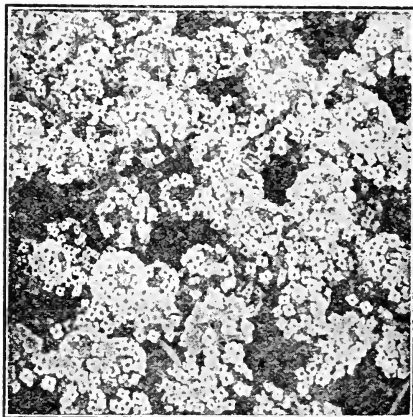
Flower Seeds

In describing our flower seeds the letter (A) denotes annual variety; (B) biennial, and (P) perennial.

AGERATUM—Floss Flower (A)—One of the most useful and profuse-blooming plants known. The attractive feathery flowers borne in dense clusters are very useful for bouquets. Very desirable for outdoor bedding and borders, being covered with bloom nearly all summer. Mixed. Pkt., 5c.

MEXICANUM COERULEUM—Blue. Pkt. 10c.

MEXICANUM GRANDIFLORUM—White. Pkt., 10c.



Alyssum

ALYSSUM (Carpet of Snow) (A)—The plants are very dwarf and spreading; they grow only three to four inches high, and each plant completely covers a circular space 10 to 15 inches in diameter. They soon become one mass of white, remaining in full bloom from spring to fall. Pkt., 10c; ½ oz., 40c; oz., 60c.

LILAC QUEEN (A)—Of dwarf compact habit. Produces an abundance of bloom of a deep lavender lilac. Plants about six inches high. Pkt., 10c.

SAXATILE (P) (Basket of Gold)—A hardy variety bearing an abundance of yellow flowers in April and May about nine inches high. Pkt., 10c.

AMARANTHUS (A)—Brilliant-foliaged, growing from three to five feet high, bearing curious racemes of flowers. Useful for the center of large beds. They thrive best in a hot, sunny location, not too rich soil, and given sufficient room to develop their full beauty.

Mixed: Pkt., 5c; ½ oz., 60c; oz., \$1.00.

CAUDATUS (Love Lies Bleeding)—Blood red; drooping. Pkt., 5c; ½ oz., 30c; oz., 50c.

ANEMONE (Coronaria) (P) (Wind Flower)—They are about two inches across, with blue stamens, resembling the single poppy in shape, and are profuse bloomers.

Single, Mixed Pkt., 10c.

ARABIS OR ROCK CRESS (P)—The blooms are produced in such great profusion that within a short time they appear like a mass of snow. They are excellent for the rock garden, where they thrive luxuriantly or for borders to other perennials. Pkt., 10c; ½ oz., 60c; oz., \$1.00.

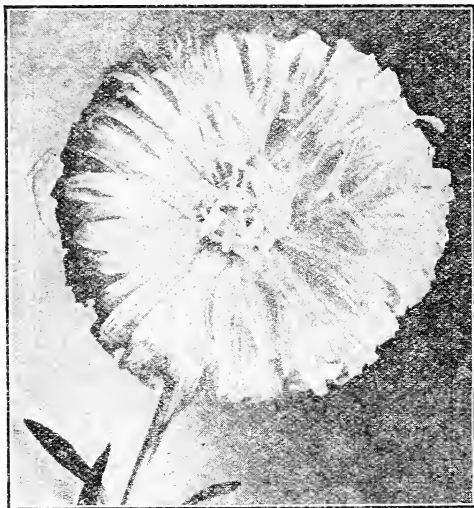
ASPARAGUS—This pretty foliage plant is quite well known under the name Asparagus Fern. It is extensively grown in pots, but is

just as useful for cutting. An admirable house-plant for summer or winter. It grows freely and quickly and should be placed near a sunny window.

PLUMOSUS NANUS—A graceful foliage plant with fern-like leaves of a rich green color. The leaves are very finely divided and very useful for cutting. Excellent pot-plant. Pkt., 10c.

ASTERS

COMET, GIANT (A)—Plants are of upright habit, about two feet high, producing long



Giant Comet

stemmed flowers composed of wavy petals. Flowers medium size, double and well formed. A good bedding variety. Peach Blossom, Light Blue, White and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.



Improved Ostrich Feather

IMPROVED CREGO (A) PLANTS—Robust; about two feet high. The large double flowers are well formed, of the Comet type, making a very fine variety for all purposes. Azure Blue, Crimson, Lavender, Rose, Pink, Purple, White and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

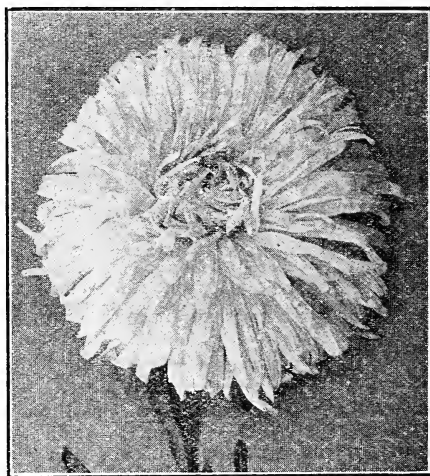
IMPROVED OSTRICH FEATHER (A)—The finest type of the Giant Comet, or Ostrich Feather type of Asters. Much larger than the Giant Comet, the petals longer and more curled and twisted, and produced in greater abundance. Borne on long stems, which makes them cut flowers par excellence. Plants about $2\frac{1}{2}$ feet high and robust in growth. Dark Blue, Shell Pink, Crimson, White and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

VICKS BRANCHING, also known as American Branching—This class of Asters bloom very profusely during the fall months, coming into bloom immediately after the Cregos.

Plants grow from $2\frac{1}{2}$ to 3 feet high; branch freely and of robust habit, bearing a large number of well formed, nearly round, double flowers of good size. Blue, Pink, Scarlet and Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 75c; oz., \$1.25.

SPECIAL ASTERS

EARLY BEAUTY—This new type of Aster comes into bloom at about the same time as Cregos and American Branching. The plants grow from 2 to 3 feet high and are unusually vigorous. The large double flowers measuring from four to five inches across, are borne on long, stout stems ranging from 18 to 24 inches. Mixed: Pkt., 15c; $\frac{1}{2}$ oz., \$1.50; oz., \$2.50.



California Giants

CALIFORNIA GIANTS (A)—Larger flowers than the Improved Crego, often measuring five to six inches in diameter, and they are characterized by the Ostrich Feather type of flowers. Their size, beauty and length of stem make them very attractive and desirable. Peach, Deep Rose and Mixed.

Pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.

HEART OF FRANCE (A)—The best pure red Aster ever introduced. The flowers are large and full. The plants are very robust. The stems are long and strong. They retain their brilliancy and luster for a longer period than almost any other color. Medium early.

Pkt., 10c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25.

SUNSHINE—Outer petals are long and narrow, whereas toward the center the petals are tubular, with a four-pointed star at the end.

Excellent for garden display and particularly fine for cutting.

Single Mixed, Pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

HARDY PERENNIAL ASTERS (Michaelmas Daisies)—Single fall-flowering hardy herbaceous plants, thriving in any good garden soil. If sown early they will flower the first season; 3 feet. Mixed, Pkt., 10c.

BACHELOR'S BUTTON, OR CENTAUREA CYANUS—Also called Corn Flower—(A)—A hardy annual, producing handsome flowers of a great variety of rich colors. Borne on tall, branching stems.

Double Mixed, Pkt., 5c; ½ oz., 25c; oz., 40c.

BALLOON FLOWER, or JAPANESE BELL-FLOWER (PLATYCODON) (P)—One of the best hardy perennials, producing very showy flowers during the whole season. They form large clumps and are excellent for planting in permanent borders or among shrubbery; easily raised from seed, which begins blooming in August if sown outdoors in April. Flowers blue. Pkt., 10c.

BALSAM OR LADY'S SLIPPER (A)—A favorite garden flower, producing its gorgeous masses of beautiful brilliant-colored double flowers in the greatest profusion; 2 feet. Start the seed indoors in April or sow out of doors in May. To grow fine specimens they should not be closer than 18 inches apart.

Double Cameilla-Flowered—Mixed. The largest double variety. Pkt., 10c.

Single Cameilla-Flowered. Mixed, Pkt., 10c.

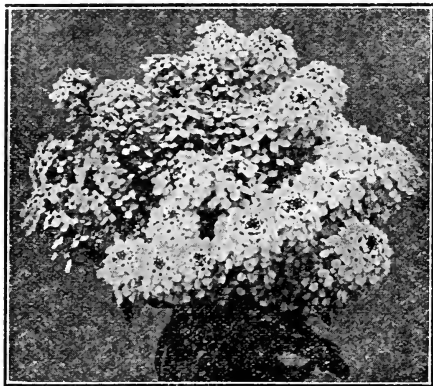
BLUE LACE FLOWER (A)—Grows into an upright plant of about two feet in height. Each branch ends in an umbel of light sky-blue flowers which spread out in an umbrella-like fashion, crowning each shoot with a beautiful and delicate head of flowers. Pkt., 15c.

CALENDULA (POT MARIGOLD) (A)—Very hardy, one foot high, blooming freely practically the whole year round. Is of the easiest culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive.

Double Mixed, Pkt., 5c; ½ oz., 20c; oz., 30c.

ORANGE BALL (A)—A very fine double calendula, a magnificent flower, growing to enormous size, and is outstanding because of its rich orange-yellow color. The flowers are well rounded and fully double to the center. The long-stemmed blooms are very fine for cutting.

Pkt., 10c; ½ oz., 25c; oz., 40c.



Candytuft

CANDYTUFT (A) (Iberis)—Showy, branching plants twelve to fifteen inches high and bearing in profusion terminal clusters of beautiful single cruciform flowers in a wide range of colors. Considered indispensable for cutting and very effective in beds, masses or rockeries.

EMPRESS (A)—Giant White. Pkt., 10c; ½ oz., 30c; oz., 50c. Giant Mixed (A), Pkt., 5c; ½ oz., 25c; oz., 40c.

CALLIOPSIS (A)—A quick growing annual. The flowers are placed on graceful wavy stems and in color run through all the shades of red and yellow; dainty foliage. Tall double mixed. Tall, single. Mixed: Pkt., 5c; ½ oz., 30c; oz., 50c.

CANNA (P)—Enormous brilliant clusters of bloom borne on spikes above broad leaves of green or bronze, in tropical effect. These are usually planted from roots or started plants, but they can be successfully grown from seed if planted early. The seed should be soaked in lukewarm water for 24 hours before sowing. About 3 feet high.

Mixed: Pkt., 10c; ½ oz., 25c; oz., 40c.

CANTERBURY

BELLS (Campanula Calycanthemata)

(Cup and Saucer)

(B) — Produces

beautiful single

flowers three inches

in length with saucers

three to four

inches in diameter.

The plants form

pyramids of bloom

bearing from 100 to

200 of these exquisite

blossoms for weeks

during the early summer.

A hardy biennial

2½ feet high, flowering

the second

season from seed.

White, Blue, Pink.

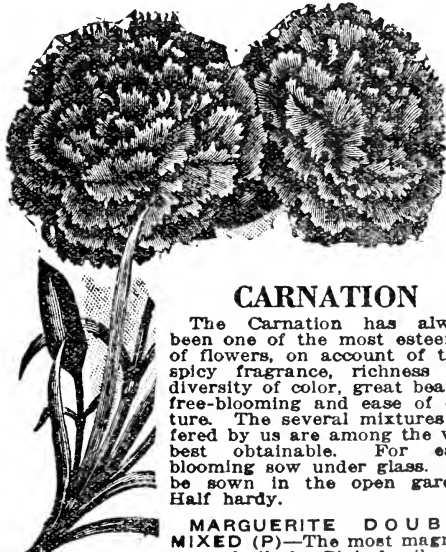
Pkt., 15c; ½ oz.,

\$1.25; oz., \$2.00;

mixed, all colors,

pkt., 10c; ½ oz.,

\$1.00; oz., \$1.75.



CARNATION

The Carnation has always been one of the most esteemed of flowers, on account of their spicy fragrance, richness and diversity of color, great beauty, free-blooming and ease of culture. The several mixtures offered by us are among the very best obtainable. For early blooming sow under glass. Can be sown in the open garden. Half hardy.

MARGUERITE DOUBLE

MIXED (P)—The most magnificent of all the Pink family and general favorite for their delicious fragrance and richness of color. Pkt., 10c; ½ oz., 75c; oz., \$1.25.

GIANT MALMAISON (P)—An exceedingly fine mixture. Pkt., 15c; ½ oz., \$1.00; oz., \$1.50.

CHABAUDS EARLIEST FRENCH MIXED (P)—Produces double, sweet-scented flowers, in a great variety of colors and in great profusion. Pkt., 15c; ½ oz., \$1.00; oz., \$1.50.

CENTAUREAS

MOSCHATA ALBA ROYAL SWEET SULTAN (A)—This beautiful class is undoubtedly the finest of all Sweet Sultans for cut flower purposes. The beautiful sweet-scented artistic-shaped flowers are borne on long, strong stems, and when cut will stand for several days in good condition. Mixed, Pkt., 10c; ½ oz., 40c; oz., 75c.

GYMNOCARPA OR WHITE LEAVED DUSTY MILLER (A)—Silvery white. Fine for bedding, vases, hanging baskets and pots. As an edging to a bed of dark-leaved Cannas or Scarlet Sage these are particularly effective. Sow the seed early indoors, and transplant in May. Pkt., 10c; ½ oz., 60c; oz., \$1.00.

CHILDSII, CHINESE WOOL FLOWER (A)—A distinct form of the plumed Celosia, with beautiful, ball-shaped flower-heads of a purplish crimson color, somewhat resembling a ball of wool. It flowers profusely during summer and fall. Two to three feet tall. One of the finest fall-blooming annuals. Pkt., 15c.

CHINESE LANTERN (Physalis Franchetti) (P)—A hardy perennial grown for its showy scarlet-red seed-pods which are easily dried for winter bouquets. The flowers are white, followed by the showy lanterns. Easily grown in any soil. Pkt., 10c.

Celosia

CELOSIA (COCKSCOMB) (A)—Free blooming annuals, growing best in light soil not too rich. They make splendid border plants and are attractive for pot. Tall mixed, dwarf mixed, pkt., 10c; ½ oz., \$1.00; oz., \$1.75.

CELOSIA (Plumosa or Plumed) (A)—These stately plants are considered among the most ornamental. They generally form pyramidal bushes branching out in candelabra shape, and the numerous massive plumes which resemble ostrich feathers, wave gracefully above the foliage. Two to three feet.

Mixed: Pkt., 10c; ½ oz., 50c; oz., 90c.

CHRYSANTHEMUMS (A)—These outdoor "summer Chrysanthemums" are showy and effective. Plants become more bushy and shapely if pinched back in early growth. These annuals are not the winter flowering sorts sold by florists and which are propagated only by division of roots. Double Mixed, Pkt., 10c; Single Mixed, Pkt., 5c.

CLARKIA (A)—Handsome, free flowering annuals of easy cultivation. Produce a fine effect massed in beds. Flowers are very bright and attractive. Double mixed, pkt., 5c; ½ oz., 60c; oz., \$1.00.

COLEUS (P)—Magnificent ornamental foliage plants for house or garden culture. The leaves are of many shapes, and the shades and colors are of remarkable beauty. Finest Hybrids Mixed, extra choice, pkt., 25c.

COLUMBINE OR AQUILEGIA (P)—A delightful hardy perennial, growing about two feet high, and splendid for permanent beds and borders. Thrives in partial shade and under the spray of a fountain or other moist location. Bears exquisite blossoms of clear blue, white, rose, purple and striped. Single mixed, pkt., 10c; ½ oz., 60c; oz., \$1.00. Double mixed, pkt., 10c; ½ oz., 75c; oz., \$1.25.

COREOPSIS (LANCEOLATA) (P)—Blossoms the first year; flower rich yellow, single; very fine for cutting. Pkt., 10c.

COSMOS (A)—Very effective for autumn flowering in broad masses or backgrounds. A hardy and rapid grower, forming bush-like

plants with feathery green foliage, four feet high, covered with large flowers somewhat resembling the single dahlia. They are gracefully poised on long stems and very useful for decorative purposes. Extra early.

	Pkt.	½ oz.	Oz.
Single Mixed	\$0.10	\$0.35	\$0.60
Double Mixed .....	.20	1.75	3.00

CYNOGLOSSUM AMABILE (Chinese Forget-me-not) (A)—An annual recently introduced from China; of the easiest culture, forming strong plants about 18 inches high and producing through the summer months sprays of intense blue Forget-me-not-like flowers. A splendid addition to the comparatively short list of real blue flowers. Pkt., 10c.

DAHLIA (P)—But few people know Dahlias can be raised from seed and will bloom the first year. Plant in a shallow box or pan early in March or April, transplant carefully as their growth demands.

	Pkt.	½ oz.	Oz.
Double Mixed	\$0.15	\$1.50	\$2.50
Single Mixed .....	.10	.75	1.25
Double Cactus .....	.15	2.50	4.50

DAISIES

AFRICAN DAISY (Dimorphotheca Aurantiaca) (A)—Its Marguerite-like blossoms, produced in great profusion, are 2½ to 3¼ inches in diameter. These are a unique glossy rich orange gold, which brilliant coloring is rendered more conspicuous by the dark disk surrounding the black zone. Pkt., 10c.

BELLIS, DOUBLE ENGLISH DAISY (P)—A favorite perennial which will stand the winter if given the protection of a little litter. In bloom from early spring until well on in the summer. Mixed, pkt., 15c; ½ oz., \$2.00; oz., \$3.50.



Shasta Daisy

SHASTA (P)—A most remarkable new flower, originated by Luther Burbank, of California; bears flowers of the snowiest white, with yellow centers; blooms the first season and should be sown in boxes early and transplanted.

Pkt., 15c; ½ oz., 75c; oz., \$1.25.

DELPHINIUM (Larkspur) (P)—Very few plants are as stately, decorative and showy as these. They have a dignity peculiarly their

own, with tall graceful spikes covered with bloom from top to bottom in an almost endless variety of colors.

	Pkt.	1/2 oz.	Oz.
Mixed	\$0.10	\$1.75	\$3.00
Dark Blue .....	.10	1.75	3.00
Light Blue .....	.10	1.75	3.00

Everlasting

ACROLINUM (A)—Very pretty, producing double daisy-like flowers, about one-half inch in diameter. Each flower is borne singly on a very long stem; leaves small, narrow, alternate. Grows about 15 inches high, double.

Mixed, Pkt., 10c.

AMARANTH GLOBE (Gomphrena Globosa)—A very vigorous and free-flowering plant with flowers resembling clover blossoms in form. Masses well for bedding, growing eighteen to twenty-four inches high. Desirable for winter bouquets if cut when in full bloom and dried in a cool, shady place.

Mixed, Pkt., 10c.

HELICHRYSUM (A)—Sometimes called Straw Flower. Large, full, double daisy-like flower heads. Desirable as dried specimens and for use in making winter bouquets. For this purpose the flowers should be gathered when on the point of expanding. Sow early in spring; thin to one foot apart each way. Hardy, 2 to 2½ feet high. Monstrum, fl. pl., finest mixed. Largest double flowers, pkt., 10c; ½ oz., 50c; oz., 75c.

STATICE (Sea Lavender) (P)—One of the most highly prized among the everlasting flowers, as it consists of masses of small bright flowers on large sprays, which when dried make fine winter bouquets. Mixed. Pkt., 10c; ½ oz., 50c; oz., 75c.

FALSE DRAGON HEAD (PHYSOSTEGIA) Virginica (P)—One of the prettiest hardy perennials, and gaining in popularity as it becomes better known. It forms dense bushes, 3 to 4 feet high, bearing freely during the summer months spikes of delicate pink tubular flowers not unlike a gigantic heather. Pkt., 10c.

FORGET-ME-NOT (MYOSOTIS) (P)—A modest little flower. A pretty trailer with blue flowers. Pkt., 10c; ½ oz., 75c; oz., \$1.25.

FOUR O'CLOCK (MIRABILIS) (A)—Is also called Marvel of Peru. A handsome, free-flowering, sweet-scented plant. They open their blossoms about four o'clock in the afternoon, hence their name. Choice mixed, pkt., 5c; ½ oz., 25c; oz., 40c.

FOXGLOVE (Digitalis) (P)—Handsome, ornamental, hardy plants of stately growth. The seed, though small, germinates readily and the plants succeed well even in poor soil if given a half shady location. The spikes are often three to five feet long and thickly strung with scores of thimble-shaped flowers. Mixed colors, pkt., 10c; ½ oz., 50c; oz., 75c.

GAILLARDIA (BLANKET-FLOWER) (A)—Splendid showy annuals, remarkable for the profusion, size and brilliancy of their flowers, continuing in bloom from early summer till November; excellent for beds, borders, or for cutting; should be sown where they are to bloom; height 2½ feet. Fine Mixed Double, pkt., 10c; ½ oz., 50c; oz., 75c; Perennial, Single, Mixed, pkt., 10c; ½ oz., 65c; oz., \$1.00.

GERANIUM (P)—Comparatively few are aware that Geraniums may be grown easily from seed and flower the first season if sown early. Very tender and must be protected from the slightest frost. Zonale Mixed, pkt., 20c; ½ oz., \$1.75; oz., \$3.00.

GEUM (P)—Mrs. Bradshaw. A pretty perennial of low growth sending up flower-stems two feet long. The flowers are double and measure two inches in diameter. They are a most intense orange-scarlet. They do best in a moderately dry soil and in an airy and sunny location. Pkt., 15c.

GILIA—Capitata (A)—This is a very graceful annual, growing about 2 feet high with fine feathery foliage and bearing freely over a long season, globular heads, about 1 inch across, of rich lavender blue flowers, which last well when cut and retaining its lovely color when dried. Mixed, Pkt., 10c.

GODETIA (A)—Attractive and hardy. The plants bloom profusely and bear showy flowers of rich and varied colors, one and one-half feet.

Mixed, pkt., 5c; ½ oz., 50c; oz., 75c.

GYPHOPHILA OR BABY'S BREATH (A)—A pretty, free-flowering plant. Fine for bouquets. Pkt., 5c; ½ oz., 20c; oz., 30c. Perennial, pkt., 10c; ½ oz., 50c; oz., 75c.

HELIOTRIS (P)

—A half-hardy perennial, growing about 18 inches high. Small flowers, borne in graceful clusters and very fragrant. Blooms the first season from seed if sown early. Forms a large plant and requires a roomy situation. Can also be grown against a wall and made to assume the character of a climber. Finest mixed, pkt., 15c; ½ oz., \$1.25; oz., \$2.00.

HOLLYHOCKS (P)

Chater's Superb Double. Finest Mixed—

These fine, old-fashioned perennials are most striking when planted in groups of long rows; their variety of color is wonderful. When plants are once obtained they last for several seasons. Double mixed, pkt., 10c; ½ oz., 75c; oz., \$1.25.

ICE PLANT—Tender Annual Trailer—A pretty little trailer for baskets or massing; 6 inches high. Leaves covered with crystalline drops. Flowers white or pink. Valued for its remarkable foliage. Pkt., 10c.

JOB'S TEARS—Coix Lachryma—An annual ornamental grass, with broad, corn-like leaves and hard shining seeds of peculiar appearance, giving the plant its name. Two feet. Pkt., 5c.

KOCHIA CHILDSII (Mexican Fire Bush, or Summer Cypress) (A)—A quick growing foliage or hedge plant, very symmetrical and attractive in summer and fall. The foliage is as fine as moss and of clean, bright, green color. Early in the fall innumerable little flowers appear and the bush takes on a deep red tinge. Sow outdoors early in spring, covering one-fourth inch deep; about two and one-half feet high. Pkt., 5c; ½ oz., 25c; oz., 40c.

LARKSPUR (A) (Delphinium)—The Larkspur with its long clustered spikes of beautiful irregular flowers, often with long spurs is especially valuable for its shades of blue. The annuals are very desirable for bedding and the seed may be sown early in spring.

	Pkt.	1/2 oz.	Oz.
Mixed—			
Dwarf Double	\$0.05	\$0.40	\$0.65
Tall Double .....	.05	.40	.65

LINUM (Scarlet Flax) (A)—One of the most effective and showy bedding plants, of long duration, having fine foliage and delicate stems, with brilliant scarlet-crimson flowers; hardy annual; one foot. Pkt., 5c.

LOBELIA (A)—A very valuable and beautiful dwarf-growing plant, delicate drooping habit and profusion of charming little blue and white flowers. Highly desirable for borders and bedding.

	Pkt.	1/2 oz.	Oz.
Dwarf S. Mixed	\$0.10	\$1.00	\$1.75
Dwarf S. Blue .....	.20	1.25	2.00
Tall S. Blue .....	.10	1.00	1.75

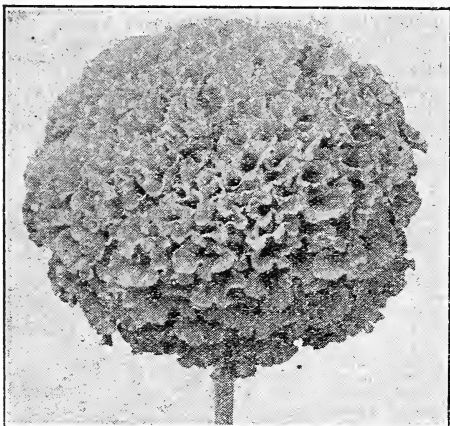
BEDDING QUEEN—Dwarfest, best for ribbon bedding. Flowers deep purplish-violet, with clear white eye. Pkt., 15c.



Heliotrope

LUPINUS (A)—Free-flowering, easily-grown, with long graceful spikes of pea-shaped flowers; valuable for borders, beds and for cutting; prefers a little shade; 2 feet.

Mixed, Pkt., 10c; ½ oz., 40c; oz., 75c.



Marigold

MARIGOLD

Tagetes (A)—The African varieties grow two to three feet tall, bear large yellow or orange-colored flowers, and are adapted for large beds or mixed borders. The French varieties are dwarfed in growth, with beautiful striped flowers three to four inches in diameter, and are better suited for bedding and pot culture.

African

LEMON BALL—Extra large, round, double flowers of a clear canary-yellow. Large round plants with attractive dark green foliage. The flowers are borne profusely and are most attractive either in beds or borders. The beautiful flowers combine large size with good form and beautiful coloring. A continuous bloomer from July until frost. Tall.

ORANGE BALL—Enormous double flowers of intense rich orange. The flowers are produced in great profusion from July until cut down by frost. Tall.

DWARF DOUBLE—About one and one-half feet high; large flowers; desirable for shrubbery or mixed border. Mixed.

TALL DOUBLE—About two feet high with flowers three to four inches in diameter, in shades of yellow and orange. Mixed.

	Pkt.	½ oz.	Oz.
Lemon Ball	\$0.10	\$0.75	\$1.25
Orange Ball .....	.10	.75	1.25
Dwarf Double .....	.10	.40	.65
Tall Double .....	.10	.40	.65

French

DWARF DOUBLE—One foot high with large flowers. Mixed.

TALL DOUBLE—One and one-half feet high with large double flowers. Mixed.

LEGION OF HONOR—A lovely variety with single flowers borne profusely and continuously. The blooms are rich golden yellow, marked with a large spot of velvety crimson at the base of each petal. Of compact growth. 9 inches in height.

	Pkt.	½ oz.	Oz.
Dwarf Double	\$0.10	\$0.40	\$0.65
Tall Double .....	.10	.40	.65
Legion of Honor .....	.10	.40	.65

Mignonette

ALLAN'S DEFIANCE—Spikes grow to a remarkable size, of delicious fragrance. The individual florets are of immense size, forming a graceful as well as compact spike. Of extraordinary keeping qualities, retaining their grace and fragrance until every bud opens.

Pkt., 10c; ½ oz., 50c; oz., 75c.

GOLDEN MACHET—A compact growing variety with medium long thick spikes of yellow flowers, very fragrant.

Pkt., 10c; ½ oz., 50c; oz., 75c.

MOSCHATUS (Musk Plant) (P)—Small yellow flowers, fragrant foliage; leaves musk scented; fine for hanging baskets. Pkt., 10c.

NASTURTIUM

For ease of culture, duration of bloom, brilliancy of coloring and general excellence nothing excels Nasturtiums. All they need is a moderately good soil in a well-drained, sunny position, and from within a few weeks from the time they are grown until hard frost comes there is an endless profusion of their gorgeous blossoms.

GOLDEN GLEAM (A)—This is an entirely new creation in the way of Nasturtiums. It has taken years of patience and careful watching to bring this double yellow Nasturtium to its present high state of development. It is semi-tall running from 2 to 2½ feet high. Sweet Scented, with long stems. It received a Gold Medal at the Atlantic City Flower Show, September, 1931. The large, golden-yellow flowers average two and one half to three inches across.

Packet, 25c.

Dwarf

FINEST MIXED—This mixture is selected from the very finest varieties and when planted in beds or masses will present a most brilliant and pleasing effect. Pkt., 5c; oz., 15c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 75c; lb., \$1.25.

Tall

FINEST MIXED—This is a very superior mixture and consists of a number of the best-known varieties and will, without doubt, prove highly satisfactory. Pkt., 5c; oz., 15c; 2 oz., 30c; ¼ lb., 50c; ½ lb., 75c; lb., \$1.25.

NEMOPHILA — BABY EYES — LOVE-IN-THE-GROVE (A)—A charming little annual plant, thriving especially well in moist, shady places, but quite at home in the open garden. The pretty, bell-shaped flowers are freely produced all summer. Plants eight inches high; of neat, bushy habit. Mixed, pkt., 5c.

NICOTIANA — AFFINIS (Tuberose-Flowered Tobacco) (A)—Delightfully sweet-scented, tubular flowers, blooming continually; annual, two to three feet high. Mixed, pkt., 10c.

NIGELIA—LOVE-IN-A-MIST or DEVIL-IN-THE-BUSH — DAMASCENA (A)—A compact, free-flowering plant with finely cut foliage, curious-looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annual, mixed. Height, one foot. Pkt., 10c.

PANSIES

PANSY. — (VIOLA ARICOLOR) (P)—A half hardy perennial, growing four to six inches high and probably the best known and among the most popular flowers in cultivation, thriving best in a moist, shady location, and in rich, loamy soil.

TRIMARDEAU GIANT MIXED—Flowers of richest and most varied shades. Plants hardy and vigorous. A very fine mixture.

Pkt., 10c; ½ oz., \$1.50; oz., \$2.50.

MASTERPIECE—Fringed, Mixed—A splendid mixture of various shapes and markings. The blossoms are perfectly round and are blotched at the base. Pkt., 20c; $\frac{1}{2}$ oz., \$2.50; oz., \$4.00.

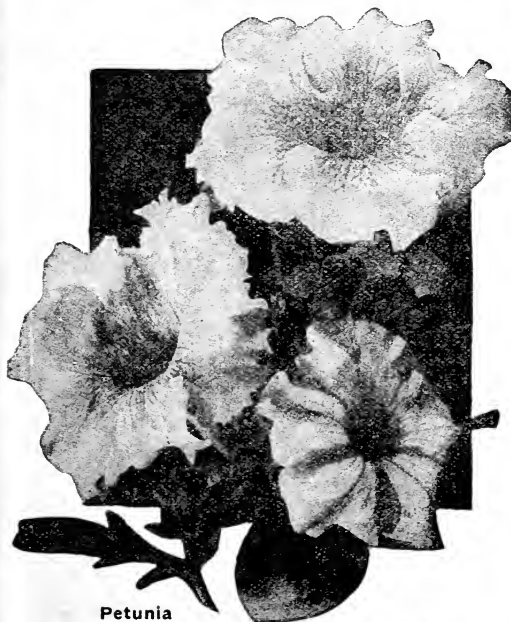


Mastodon

MASTODON—Mixed—These have been carefully re-selected and bred up to their present surpassing excellence, and for giant size, substance, form and coloring we have never seen Pansies to compare with them.

Pkt., 25c; $\frac{1}{2}$ oz., \$2.50; oz., \$4.00.

PETUNIA



Petunia

PETUNIA (A)—Of easy culture, early to bloom and continues throughout the summer

until the first killing frost. No other flower produces a greater diversity of color, retaining its freshness for so long a period. The doubles may be perpetuated, if desired, by taking cuttings late in the summer, for winter house blooming plants.

Single Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75. Single Fancy Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$1.25; oz., \$2.25.

CALIFORNIA GIANTS (A)—Flowers very large in great variety of colors and markings with yellow throats. Fringed. Mixed, Pkt., 25c.

ROSY MORN (A)—A bright rosy pink, with silvery white throat, very charming, compact, and free flowering. Makes a very dainty and effective border. Pkt., 10c.

DOUBLE FRINGED PETUNIAS—Clover Leaf mixture of double fringed petunias is carefully selected from the best large flowering double fringed plants. It is well understood that the flowers are not all double, but those that come single will be fine large blooms. Mixed, pkt., 30c.

PINKS

DIANTHUS—The Pinks are old-fashioned favorites and have much variation in color. Both the single and double Pinks are well adapted for bedding and borders, and are suitable also for cutting as the stems are of good length and the brilliantly colored flowers contrast vividly with the rather narrow, bright, light green leaves about one foot high.

Single or double. Pkt., 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.



PLUMARIUS—(Grass Pink) (B) — A beautiful hardy pink. Fringed-edged flowers. Sweet scented. Single mixed. Pkt. 10c; $\frac{1}{2}$ oz., 65c; oz., \$1.00.

PHLOX

PHLOX DRUMMONDI (A)—Of all summer-flowering annuals, the varieties of Phlox Drummondii are unquestionably one of the most brilliant and satisfactory. Seed may be sown in the open ground any time after danger from frost is past, and in a few weeks the beds or borders are aglow with their brilliant coloring and remain so until cut down by frost. For early flowering they should be started indoors or in a hotbed. Grandiflora Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75. Perennial Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.25; oz., \$4.25.

STAR (A)—This variety is very popular, perhaps because of its bright and cheerful color. The flowers are rich rose with a distinct white star-like center surrounding a narrow ring of deep, rich red. It is a magnificent flower, well rounded, and always very large. The flowers



Phlox Drummondii

are star-shaped and are borne in big heads throughout summer and fall. Pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

POPPIES

California

CARMINE KING (A)—Beautiful carmine rose color, both on the interior and exterior of the flower. Very handsome. Single. Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

GOLDEN WEST (A) (Eschscholtzia)—Commonly known as California poppy. This is the best known of this species of poppies and has been a great favorite wherever sown. Color, rich, rare tints of yellow and orange; very beautiful. Single. Pkt., 5c; $\frac{1}{2}$ oz., 20c; oz., 35c.

MIXED (A)—This is a special mixture and comprises many of the best named varieties and embraces all colors and shades of the Eschscholtzia California type of poppies. Pkt., 10c; $\frac{1}{2}$ oz., 45c; oz., 75c.

Miscellaneous

ICELAND (P)—A graceful, delicate variety, the petals resembling crumpled tissue paper. The plant is low-growing, but the stems are long and slender. Single. Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

ORIENTAL (P)—One of the showiest of the perennials, with enormous flowers. The leaf is long and deeply cut and clothed with white, bristly hair. Single.

Mixed, pkt., 10c; $\frac{1}{2}$ oz., \$1.00; oz., \$1.75.

PAEONY FLOWERED (A)—Large, showy flowers, closely resembling a small Paeony. Profuse bloomer. Double mixed.

Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

SHIRLEY IMPROVED (A)—The most beautiful type of poppies, having soft, hairy foliage, and a great variety of blossoms. Free blooming and fine for bedding or tall border. Single. Mixed. Pkt., 10c; $\frac{1}{2}$ oz., 25c; oz., 40c.

PORTULACA OR ROSE MOSS (A)—Brilliant, dwarf, only six inches high, luxuriating in warm situations and blooming profusely from early summer to autumn. For masses of color, from spring until frost, they are indispensable.

Single Mixed, pkt., 10c; $\frac{1}{2}$ oz., 60c; oz., \$1.00. Double Mixed, pkt., 15c; $\frac{1}{2}$ oz., \$2.00; oz., \$3.50.

PRIMROSE

PRIMULA VULGARIS (P)—The beautiful wild English Primrose. It grows best in shady places. The seed is very slow in germinating and may stay in the ground a year, but once established, the plants are quite hardy. The flowers are clear yellow with touch of orange at base. Six inches in height. Pkt., 25c.

PRIMROSE—SINENSIS OR CHINESE (P)—The beautiful, large fringed flowers stand in pyramids arranged on short flower stems, specially fine for winter and spring flowers in the house; easily grown; free bloomers. Finest single mixed. Pkt., 25c.

PYRETHRUM (A)—A fine hardy plant with large daisy-like flowers. Blooms during May and June. A free bloomer and flowers most excellent for cutting. Foliage and flowers both very ornamental. Large flowering Double and Semi-Double and Single Mixed. Pkt., 20c.

RICINUS, OR CASTOR OIL BEAN (A)—Ornamental plants of steady growth and picturesque foliage with brilliant colored fruit, producing a sub-tropical effect; fine for lawns, massing or center plants for beds.

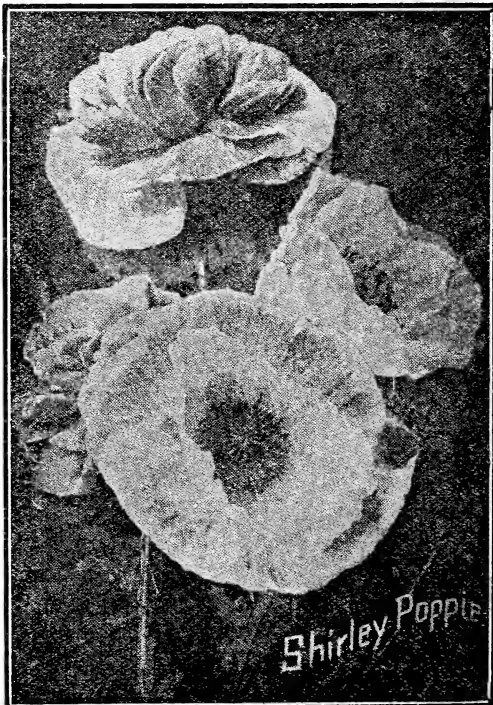
Finest Mixed, pkt., 5c; oz., 20c.

SALVIA (America)—These attractive bushy plants do not grow over 15 inches high, with the spikes of brilliant scarlet flowers thrown well above the plant, making a total height of about 2 feet. Pkt., 15c; $\frac{1}{2}$ oz., \$1.75; oz., \$3.25.

SCABIOSA OR MOURNING BRIDE (A)—A free-flowering annual. Very effective for garden decoration and valuable for cutting. Dwarf or tall double mixed.

Pkt., 10c; $\frac{1}{2}$ oz., 35c; oz., 60c.

SCHIZANTHUS (Butterfly Flower) (A)—Hardy, growing one and one-half to two feet



high and covered with bright, showy, butterfly-like blossoms. Large flowering.

Mixed, pkt., 10c.

SNAPDRAGON, OR ANTIRRINUM (P)—One of the most useful and showy plants. Of almost every shade and color. They have recently been much improved and are now really magnificent. Hardy perennial. Tall.

Finest Mixed, pkt., 10c; ½ oz., 60c; oz., \$1.00. White, pink, yellow, red copper, pkt., 10c; ½ oz., \$1.00; oz., \$1.75.



Salpiglossis (Velvet Flower)

SALPIGLOSSIS (A)—The quaint, funnel-shaped flowers somewhat resemble those of the Petunia; beautiful range of colors.

Finest Mixed, pkt., 10c; ½ oz., 60c; oz., \$1.00.

SNOW IN SUMMER (Ceratium Tomentosum) (A)—A very pretty dwarf white leaved edging plant, bearing small white flowers suitable for the rockery or for dry sunny spots or steep banks. Pkt., 15c.

SNOW ON THE MOUNTAIN (Euphorbia Variegata) (P)—Suitable for beds or borders. Small white flowers. The foliage is exceedingly ornamental, being veined and marked with broad white bands on rich green ground.

Pkt., 10c.

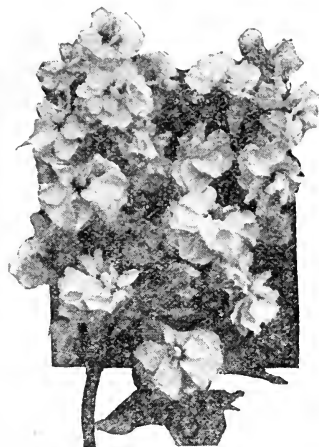
STOCKS

STOCKS—Sometimes called Gilliflower. Considered almost indispensable where a fine display of flowers is wanted. They produce dense spikes of very fragrant and beautiful rosette-like double flowers.

MATTHIOLA BICORNIS (A) Evening Scented Stock—No annual in cultivation equals this in delicate perfume of its flowers. The pink and lilac blossoms partly closed during the day, expand and impart their fragrance in the evening. 12 to 15 inches. Pkt., 10c; ½ oz., 40c; oz., 75c.

MAMMOTH EARLY BRANCHING NICE (A) Because of their branching habit they produce a great many blooms, hence has become very popular not only with the florists but also for the home flower bed. For fragrance, brilliancy, diversity of color, profusion and duration of bloom they are unsurpassed. Double Mixed.

Pkt., 10c; ½ oz., \$1.50; oz., \$2.50.



Stock

DRESDEN PERPETUAL OR BRANCHING (P)—These ever-blooming stocks are popularly called "Cut and Come Again." Sown in March they flower profusely from July until frost; their best period being late autumn. Very fragrant. Double, Mixed, pkt., 10c; ½ oz., \$1.50; oz., \$2.50.

SUNFLOWER (Helianthus) (Double Chrysanthemum Flowering) (A)—This pretty sunflower grows to be about 3 feet high and has late in summer bright golden yellow flowers on stiff stem, fine for cutting. This is a pretty and refined flower, four inches across. Pkt., 5c; ½ oz., 30c; oz., 50c.

SWEET ROCKET (Hesperis) (P)—Among the most desirable of hardy flowers, also known as Dame's Rocket and Dame's Violet; grows from two to three feet high and bears spikes of showy fragrant flowers. Mixed. Pkt., 5c.

SWEET WILLIAM (P)—A well-known, attractive free flowering, hardy perennial, producing a splendid effect in beds and borders with rich and varied flowers. Mixed Double, pkt., 10c; ½ oz., 75c; oz., \$1.25. Mixed Single, pkt., 10c; ½ oz., 40c; oz., 75c.

THUNBERGIA (Black-Eyed Susan) (A)—One of the best trailing plants for boxes, vases, etc. Neat, compact growth. The pretty flowers, an inch in diameter. Mixed, pkt., 10c.

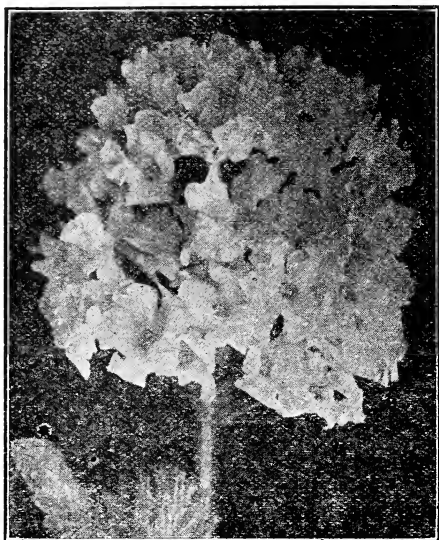
VINCA (Periwinkle) (P)—Very attractive plants with glossy green foliage, suitable for summer bedding and borders. If sown early under glass and transplanted in a warm, sheltered situation will bloom in summer and autumn and may be potted for the house before frost. About 15 inches high. Mixed, Single, pkt., 10c.

WALL FLOWER (P)—Produces spikes of beautiful, exceedingly fragrant flowers. Half-hardy. Mixed, Single, large flowering, pkt., 5c; ½ oz., 35c; oz., 60c. Mixed, Double, pkt., 20c; ½ oz., \$2.00; oz., \$3.75.

GARDEN MIXTURE (A)—A garden is not complete without a bed of this mixture of flowering annuals. A package will sow a bed about two by ten feet, and if sown early in the spring will furnish continual bloom throughout the season.

	Pkt.	Oz.	2 Oz.	4 Oz.
Annuals	\$.10	\$0.30	\$0.50	\$0.90
Perennials .....	.10	.35	.60	1.00

VIOLA CORNUTA—Tufted Pansies (P)—Viola is often mistaken for a small pansy. It belongs to the same family and is one of the best for borders. Very attractive. Free blooming. Mixed. Pkt., 15c.



Verbena

VERBENA (A)—Very few annuals will make such a gorgeous display during the summer months. Start seed in the house or under glass early in the spring and transplant after three or four inches of growth. They flower in July and continue until frost. **Mammoth Extra Choice, Mixed, pkt., 10c; ½ oz., 75c; oz., \$1.25.**

VIOLETS (P)—Violet Odorata is the well-known English violet, a free-flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded moist places. Very early bloomer. Sweet scented, very pretty and very popular and a beautiful blue. **Pkt., 10c.**

ZINNIAS

ZINNIAS (A)—Are one of the most brilliant and showy annuals, and have long been a general favorite. They come in flower in early summer and continue blooming until frost.

Zinnias have been very greatly improved the last few years, and the outstanding type at the present time is what is known as Dahlia Flowered Zinnias. These are not to be confused with other really good types of Zinnias. Since their introduction, they have received "Award of Merit," a Gold Medal, and a Silver Medal from various Horticultural Societies, because of their superiority over all other types.

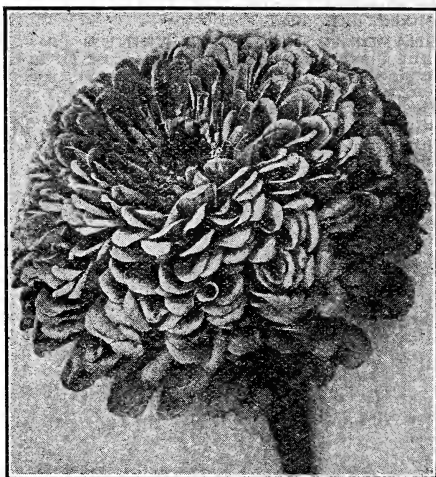
The grower and originator states that their large sized flowers, fullness of petals, color, and good keeping qualities have all contributed to their popularity. Bushes grow from three to four feet tall.

We offer the following outstanding varieties in straight colors, and recommend these as being among the very best.

CRIMSON MONARCH—By far the largest and best of the red shades. Flowers often eight inches in diameter. Plants very vigorous. A marvelous production of extraordinary merit.

GOLDEN STATE—An excellent color. Rich golden yellow, shading to orange as the flower ages. Blooms are large, of true Dahlia form, borne on long stems.

EXQUISITE—This is one of the most pleasing of this new collection of Giant Dahlia Flowered Zinnias as regards form and size. A striking self color of deep rose.



Giant Dahlia Flowered

PURPLE PRINCE—A fine deep purple, large and well formed. Very beautiful.

The foregoing four Giant Dahlia Flowered Zinnias. **Pkt., 20c; ½ oz., \$1.75; oz., \$3.00.**

SPECIAL MIXTURE—This special mixture contains the very best of the Giant Dahlia Flowered varieties of Zinnias. Is well blended as it has been thoroughly rogued in the field for type and size of flowers. **Pkt., 15c; ½ oz., \$1.00; oz., \$1.50.**

ZINNIAS (Elegans Grandiflora Double)—These are known as the old type Zinnias, and while they do not compare in any way with the Dahlia Flowered type, there has been a great improvement in this type since they were first introduced, and they are now a beautiful flower. **Mixed pkt., 10c; ½ oz., 60c; oz., \$1.00.**

ROCK GARDEN

The following varieties are especially recommended for Rock Gardens.

Annuals

African Daisy
Alyssum, Sweet
Ice Plant

Portulaca, Double
Stock
Verbena

If bought separately, they would cost 65c. Any six, 60c.

Perennials

Alyssum Saxatile
Arabis
Asters
Candytuft
Canterbury Bells
Columbine

Dianthus
Geum
Linum
Poppy, Iceland
Snow in Summer
Viola

If purchased separately, these would cost \$1.30. Any twelve, \$1.10.

Sweet Peas

No garden is too small for a row of Sweet Peas, and no estate, however extensive or magnificent, should fail to include many varieties of this most popular flower.

MIXED GRANDIFLORAS

OUR CLOVER LEAF MIXTURE is blended in the proper proportions and good seed only is used. Therefore, it is highly dependable.

and with proper care should give very satisfactory results. Pkt., 5c; large package, 15c; oz., 15c; 2 oz., 25c; ¼ lb., 40c; ½ lb., 75c; 1 lb., \$1.25.

MIXED SPENCERS

OUR CLOVER MIXTURE is highly dependable, and with proper care should give very satisfactory results. Pkt., 10c; large package, 25c; oz., 25c; 2 oz., 40c; ¼ lb., 60c; ½ lb., \$1.00; 1 lb., \$1.50.

STANDARD SPENCERS

All the following 15 varieties of choice Spencer Sweet Peas: Pkt., 10c; any 6, 50c; oz., 30c; 2 oz., 55c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.75.

Blue **MRS. TOM JONES**—Bright delphinium-blue. The flowers are very large and of great substance; beautifully waved, and invariably come four on a stem of great length.

WEDGWOOD—Bright, silvery blue. Large, well waved flowers on long stems. An attractive and very desirable shade.

Cream **DOBBIE'S CREAM**—A strong growing, cream or primrose. A profuse blooming variety, with large, much waved flowers, often duplexed.

Crimson **KING EDWARD**—Deep rich crimson; a strong and beautiful color. Does not fade or scorch.

Lavender **ASTA OHN**—An exquisite rosy lavender. Flowers large and well waved.

Maroon **WARRIOR**—The color is a rich reddish maroon flushed with bronze. Lovers of dark shades will appreciate this fine color. A strong grower and free bloomer.

Orange **THE PRESIDENT**—A most brilliant color. An intensely rich and dazzling orange scarlet, large size and perfect form.

Pink **HAWLMARK**—The color is a rose-pink, flushed and shaded, with salmon. The wings are bright rose-pink, whereas the standard is somewhat lighter in color and slightly toned down with salmon. Large, well-waved blooms, usually borne in fours.

MARGARET ATLEE IMPROVED—A rich glowing pink on cream ground, softly suffused with salmon in the standard and pinkish rose or salmon wings. The flowers are large, beautifully frilled or waved and many of them double.

Purple **ROYAL PURPLE**—The color is a rich, royal purple, the younger flowers having a slightly softer color tone. Best purple yet introduced.

Salmon **BARBARA**—A superb salmon-colored self that makes a telling bunch either for exhibition or table decoration. Requires shading against strong sun.

Scarlet **CAMP FIRE**—A very bright scarlet, sunproof. It is said the flowers will stand the hottest sun, the brighter the sun, the better the color.

FIERY CROSS—Bright scarlet, which glitters in the bright sunlight with a glowing radiant fire-like sheen.

White **WHITE SPENCER**—One of the purest and best white.

KING WHITE—Remarkable for the glistening purity of the whiteness and the perfect finish of the flower. Of truly gigantic proportions. Four flowers on a stem.

All of the foregoing 15 varieties of choice Spencer Sweet Peas. Pkt., 10c; any 6, 50c; oz., 30c; 2 oz., 55c; ¼ lb., 90c; ½ lb., \$1.50; 1 lb., \$2.75.

SELECTED SPENCERS

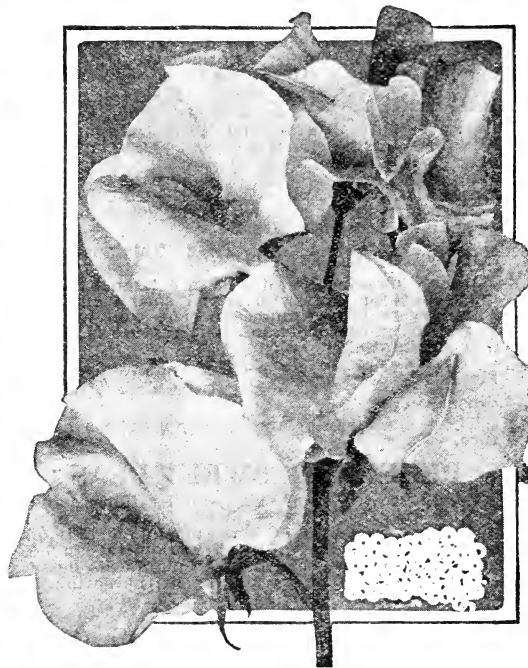
The following nine varieties of selected Spencer Sweet Peas, 2 packages, 25c; or any 6, 60c. Oz., 35c; 2 oz., 65c; ¼ lb., \$1.00; ½ lb., \$1.75; 1 lb., \$3.25.

Blue **REFLECTION**—A fine new English variety with blooms of large size, heavy texture, and elegant form. The color is a rich mid-blue.

Lavender **WEMBLEY**—A delightful shade of lavender with a touch of plumbago blue and a silver sheen.

Mauve **CHIEFTAIN**—A Gold Medal variety with large blooms of a pure satiny mauve. Very fine.

Orange **FLAMINGO**—The flowers are truly enormous in size, produced in threes or fours on very long, stiff stems. The broad and well-waved standard is light orange,



with a suffusion of bright salmon, and the wings are a delicate shade of orange pink.

Pink **MISS CALIFORNIA**—A most beautiful and outstanding cream pink. The beautiful coloring of the flower and blending of shades is perfect and wonderful. Large flowers, waved, and borne in fours on long stout stems, combined with its vigorous growth, makes it a very desirable variety.

IDYLL—A magnificent new cream-pink, shaded salmon. Of great size and exquisite form.

Scarlet **GRENADIER**—The large flowers are a rich poppy scarlet. Borne abundantly on long stems.

White **AVALANCHE**—An outstanding, pure white flower of lovely texture. Well waved and elegant.

MODEL—An outstanding new black-seeded white-flowering Sweet Pea of magnificent proportion.

These nine varieties are not supplied in a mixture. For mixture order our Clover Leaf Spencer Mixture.

SPECIAL SELECTION

The following 6 varieties of specially selected Spencer Sweet Peas: Pkt., 15c; 6 for 75c; oz., 50c; 2 oz., \$1.00; ¼ lb., \$1.75; ½ lb., \$3.25; lb., \$6.00.

Glitters The standard is a bright, fiery orange, and the wings are deep orange. The enormous flowers are of substantial texture, and hold up well after cutting. The flowers are artistically placed usually in fours, on a long and strong stem.

Fluffy Ruffles The blooms are duplexed and frilled. They are long-stemmed, bearing a profusion of well-proportioned sprays of four. A lovely rich rose-pink, a gleam of soft salmon, and a bright creamy under-tone blend into a harmonious cream-pink shade of exquisite beauty.

Miss Spokane It was by special request of the Florists' Club of Spokane, Washington, and others, that the name "Miss Spokane" was given to this bright and outstanding Burpee variety. The standard is peach-red and the wings bright scarlet blending into a bunch effect of rich orange-scarlet.

Ruffled Beauty The flowers are as gracefully ruffled as those of Fluffy Ruffles and Ruffled Rose. The color of Ruffled Beauty is a clear shade of lilac-pink over an amber ground—rich enough to attract the eye, yet soft enough to be admired for its delicate beauty. They produce at every joint a long-stemmed flower spray set with four elegant ruffled blooms.

Snowstorm Improved This is the leading white Winter Flowering Sweet Pea in existence. It is unexcelled for both winter and spring cutting. The flowers are of immense size, well waved, and of artistic proportions. The texture is thick and substantial.

Ruffled Rose An elegant new rose-colored variety introduced by Burpee in 1923.

These six varieties are not supplied in a mixture.

PERENNIAL SWEET PEAS

Easily grown, hardy with smaller flowers and lacking the fragrance of Sweet Peas, but producing a succession of blossoms in clusters of eight to ten each. Only a few flowers can be expected the first season. The plants die down late in the fall and start again in the spring. Mixed, pkt., 10c; ½ oz., 45c; oz., 75c.

VINES FROM SEEDS

Balloon Vine (Love-in-a-Puff) (A) — A rapid growing annual climber; succeeds best in light soil and warm situation; flowers white, seed vessels like miniature balloons. Pkt., 5c; ½ oz., 25c; oz., 40c.

Balsam Pear (A) — A rapid grower, attaining 10 feet in height. Has graceful and ornamental foliage, yellow flowers and warted, golden yellow fruit. Pkt., 10c; ½ oz., 30c; oz., 50c.

Beans Scarlet Runners (A) — A great favorite not only as an ornamental climber but for the delicious edible beans which succeed the bright scarlet sprays of pea-shaped blossoms. Pkt., 5c and 10c; 2 oz., 15c; ¼ lb., 20c; ½ lb., 30c; lb., 50c.

Bean Hyacinth (Australian Pea Vine) (Dolichos) (A) — This really beautiful climbing plant is of quick growth; foliage is handsome and the clustered spikes of beautiful purple and white flowers are borne in great profusion. Mixed, pkt., 5c; ½ oz., 20c; oz., 30c.

Boston or Japanese Ivy (Ampelopsis Veitchii) (P) — A rapid creeper with lovely green foliage which

turns red in fall. Excellent for covering walls, outhouses, etc. Height, 50 feet. Pkt., 10c; ½ oz., 30c; oz., 50c.

Canary Bird Vine (A) — A beautiful climber; flowers a bright golden yellow, bearing a fanciful resemblance to birds with expanded wings. Pkt., 10c; ½ oz., 30c; oz., 50c.

Cardinal Climber (A) This is a great favorite among the climbers and attains a height of 15 feet. The leaves resemble those of a fine Japanese maple and completely cover the vines. The bright scarlet flowers are not large but grow in such profusion as to completely cover the vines. Pkt., 15c; ½ oz., \$1.00; oz., \$1.50.

Climbers (A) — This assortment of Climbers consists of from ten to fifteen varieties and will be found to be intensely interesting and beautiful. Pkt., 10c; oz., 30c; 2 oz., 50c; ¼ lb., 90c.

Cypress Vine or Ipomea Quamoclit (A) — A climber of rapid growth, having handsome fern-like foliage and a profusion of bright, attractive flowers. Mixed, pkt., 10c; ½ oz., 25c; oz., 40c.

Coboea Scandens (A) — One of the handsomest and most rapid growing of the annual climbers. It climbs 30 feet in a season. The flowers are bell-shaped. Very prolific and perfectly hardy. The vine is always clean of insects. Mixed, pkt., 10c; ½ oz., 50c; oz., 75c.

Gourd (Cucurbita) (A) — The vines are of easy culture and make a rapid growth, so are much used for covering old fences, trellises, stumps, etc. The foliage is ornamental. Do not plant the seed till danger of frost is over, and select light, rich soil and a sunny situation. Water freely. Ten to twenty feet high. Mixed, pkt., 5c; ½ oz., 20c; oz., 35c.

Japanese Kudzu Vine (P) — The Kudzu vine comes from Japan, the land so productive of curious and ornamental flowers. It is a beautiful climber, remarkable for its great vigor of growth and its handsome flowers. The blossoms are large and in panicles somewhat like the Wistaria, but larger in size and with better clusters. The color is a pleasing shade of purple. The foliage is luxuriant. The vine is extremely rapid and dense in growth, perfectly hardy; fine for arbors, verandas, etc. Pkt., 10c; ½ oz., 50c; oz., 75c.

Japanese Hop (Humulus) (A) — Variegated Japanese Hop. A charming climber, attaining a growth of 20 to 25 feet in a few weeks. The leaves (6 to 7 inches across) are beautifully marked and variegated with white yellowish green and dark green. Not injured by insects or by heat, and the vine retains its beauty until frost. Pkt., 10c; ½ oz., 30c; oz., 50c.

Moon Flower or Ipomea, Mexicana Grandiflora (A) — Rapid growing climber, belonging to the Morning Glory family. The flowers are large, waxy white and very showy. Pkt., 10c; ½ oz., 40c; oz., 75c.

MORNING GLORIES

MORNING GLORY (A) (Convolvulus Major Ipomea Purpurea) — Tall, fine mixed, a great variety of colors of the popular old-fashioned sorts. Pkt., 5c; ½ oz., 15c; oz., 20c; 2 oz., 30c; ¼ lb., 50c.

GIANT JAPANESE FRINGED (Imperialis) (A) — The flowers of this variety are of largest size, often three inches or more across, and come in a great variety of highly dazzling colors. The foliage in some plants comes plain green, in others it is mottled with white and shades of yellow or yellowish green. Pkt., 10c; ½ oz., 20c; oz., 30c; 2 oz., 55c; ¼ lb., \$1.00.

SMILAX (P)—Charming, tender, perennial climber for greenhouse or window gardens. The foliage and stems are of a pleasing light green; very graceful; excellent for decoration. Pkt., 10c.

WILD CUCUMBER (A)—This is one of the quickest growing vines. It will re-seed itself. Thickly dotted over with pretty white fragrant flowers, which are followed by an abundance of ornamental prickly seed pods. Pkt., 5c; 1/2 oz., 20c; oz., 30c; 2 oz., 50c; 1/4 lb., 80c; 1/2 lb., \$1.25; lb., \$2.25.

VINES FROM ROOTS

CINNAMON VINE—The stem dies every autumn, but grows very rapidly as soon as spring approaches. With its beautiful heart-shaped leaves and clusters of delicate white flowers, and most delicious cinnamon odor, is most desirable climber. Each, 15c; 2 for 30c; 1/2 doz., 75c. Postpaid, doz., \$1.25.

HOPS—Are the most rapid growers of any vine coming from the roots each spring. Their rapid growth and large broad leaves cover a porch before the arrival of the hot days of the summer. Postpaid, each 10c; 1/2 doz., 50c; doz., 75c; 50, \$3.00; 100, \$5.00.

Bulbs CANNAS

BEACON—Moderate sized flowers borne in great heads of rich cardinal red. Each 25c.

BRANDYWINE—A healthy, vigorous grower of four to five feet. Makes luxuriant growth of dark bronze foliage and a magnificent display of fine large flowers. Color is intense red, beautifully dappled with deep crimson. Each, 25c.

CHAS. HENDERSON—Crimson; compact trusses; very free bloomer, leaves green. Each, 25c.

CHEERFULNESS—Its beautiful bright fire-red or deep orange flowers appear early and continue without interruption until frost. Each, 35c.

EGANDALE—A fine, bronze-leaved variety; cherry-red flowers, borne well above the foliage; handsome. Four feet. Each, 25c.

FIERY CROSS—Very large flower heads of vivid scarlet shading to crimson; foliage lustrous blue-green. Five feet. Each, 30c.

GAIETY—Reddish orange, mottled with carmine and edged with yellow. The tongue is yellow and densely spotted with carmine. Each, 25c.

ORANGE BEDDER—This is a particularly useful and attractive bedding variety, of a bright orange with just enough scarlet suffusion to intensify the dazzling mass of color. Four feet. Each, 25c.

PANAMA—The color of this splendid Canna is unusual, being an attractive rich orange-red with a well-defined edge of bright golden yellow. The flowers are very large, the petals being almost round. Early. Three feet. Each, 25c.

THE PRESIDENT—A gorgeous variety producing great trusses of bright red flowers in great profusion. Each, 30c.

YELLOW KING HUMBERT—Orchid flowering. Foliage tropical green; flowers rich yellow, softly spotted and blotched with bright red. Four feet. Each, 25c.

WINTZER'S COLOSSAL—Five feet. Without doubt the largest-flowered Canna to date, as the average flowers almost cover a man's hat. The color is a strikingly vivid scarlet that retains its brilliancy. Each, 25c.

All 25c Cannas, 1/2 doz., \$1.35; doz., \$2.40.

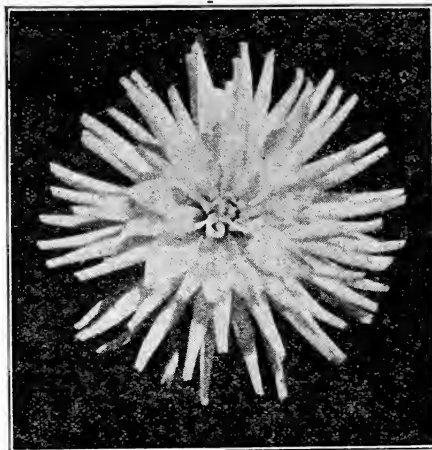
All 30c Cannas, 1/2 doz., \$1.65; doz., \$3.00.

All 35c Cannas, 1/2 doz., \$2.00; doz., \$3.50.

DAHLIAS

The Dahlia is one of the showiest of all autumn flowers. Commencing to flower in July, they are a perfect blaze of bloom until frost.

CACTUS



This type is particularly valued on account of the fact that the flowers will keep in good condition longer after cutting than those of any other type.

One each of these nine varieties of fine Cactus Dahlias, \$3.75 postpaid. If bought singly price would be \$4.30.

Orange BOWEN TUFTS—Bright orange. Each, 40c.

F. W. FELLOWS—Flowers very large with long, narrow petals. Bright orange-scarlet. Each, 55c.

Pink BONNY—Described as a true pink. Each, 45c.

COUNTRESS OF LONSDALE—Early. Very attractive salmon-pink. Each, 55c.

MRS. EDNA SPENCER—Delicate orchid pink. Each, 60c.

Red GUARDIAN—A luminous, attractive, brilliant red. Each, 45c.

White ALABASTER—A very good white. Each, 40c.

SAMARITAN—Pure white. Each, 45c.

Yellow GOLDEN WEST—Large flowers. Deep rich yellow. Each, 45c.

DECORATIVE

The Decorative Dahlias are an intermediate form between the Show and Cactus types. Many beautiful varieties have been introduced, some with flat petals, others reflexed, incurved or curiously twisted; but nearly all are without formality or stiffness, bearing their large perfectly formed blooms on long, stiff stems.

One each of these nine beautiful decorative Dahlias, \$3.75, postpaid, or \$4.30 worth of Decorative Dahlias for \$3.75.

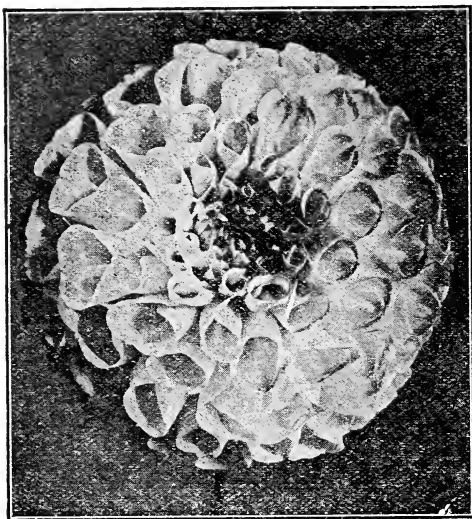
Orange AMUN RAY—Flowers of immense size. Coppery orange. Each, 50c.

Pink JERSEY BEAUTY—A pure pink. Large flowers. Long, stiff stems. Each, 40c.

SYLVIA—Soft, pleasing, mauve-pink, changing to white in center, a fine cut flower. Each, 40c.

Purple LE GRAND MANITOU—Splashed purple on deep rose. Each, 45c.

Scarlet JERSEY'S BEACON—Large flowers globular in form. Prolific bloomer. Chinese scarlet. Each, 55c.



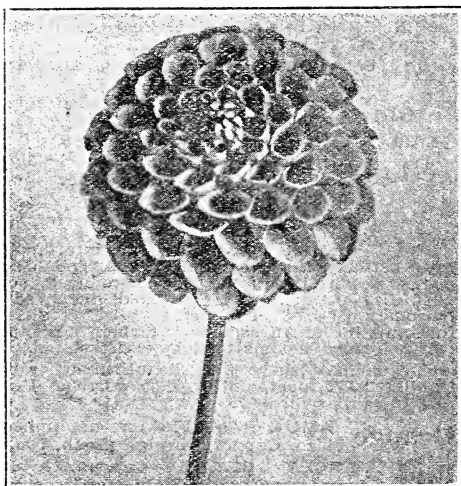
White SNOW DRIFT—Commonly called giant white. Much admired. Each, 55c.

Yellow AVALON—Pure clear yellow. Flowers full to center and produced abundantly. Each, 40c.

PATRICK O'MARA—The color is an unusually soft and pleasing shade. Each, 55c.

INSULINDA—Petals twisted and curled. Saffron yellow shaded with russet orange. Each, 50c.

POMPON



Pompon

The plants grow into neat little bushes which are covered with small, perfectly ball-shaped

Dahlias, measuring up to 2 inches in diameter. The flowers are always double to the very center and in many varieties the petals are curled.

Brunette—Dark Maroon.

Darksome—Deep Crimson.

Gloria—Maroon and white.

Guiding Star—The very best white.

Little Jennie—Primrose yellow.

Sunshine—Vermillion Scarlet.

Each of above, 40c; or any six, \$2.25.

SHOW

Show Dahlias are usually of solid color, but in certain varieties the tips of the petals may be of another. They are usually round, ball-shaped, and are always beautiful and compact.



Show Dahlia

Bonnie Blue Deep solid pink. Each 45c.

Clara Seaton Light yellow. Each 40c.

Deelighted A very large pure white, greatly admired for its many good qualities. Each, 50c.

Glory of Argonne Very beautiful pink and white. Each, 55c.

White Swan Snow white. Each 40c.

All 40c Dahlias.....	1/2 doz.,	\$2.25;	doz.,	\$4.00
All 45c Dahlias.....	1/2 doz.,	\$2.50;	doz.,	\$4.50
All 50c Dahlias.....	1/2 doz.,	\$2.75;	doz.,	\$5.00
All 55c Dahlias.....	1/2 doz.,	\$3.00;	doz.,	\$5.50
All 50c Dahlias.....	1/2 doz.,	\$3.25	doz.,	\$6.00

See Page 26 for description of Gold-
en Glean Double Yellow Sweet Scent-
ed Nasturtium. This is the first time
this new creation has been offered to
the public.

Gladiolus

Gladiolus are the most satisfactory, desirable and popular of all the garden bulbs. Nothing else of the kind costs so little, grows and blooms so readily in any soil or climate as Gladiolus. They thrive and bloom with the least care and attention, and make a display which for brilliancy and beauty of coloring few bulbs can equal and none surpass. Plant any time from March to June.



All named varieties of Gladiolus are number one bulbs and are not to be compared in quality to the smaller bulbs. These large bulbs cost more, but are well worth it, as they produce longer spikes, thus giving not only more flowers, but larger.

Blue

BARON HULOT—Long, graceful spikes, of good-sized, well-opened flowers, having a rich indigo-blue color. Very unique and beautiful shade, and never fails to attract attention.

2 for 25c; 1/2 doz., 75c; doz., \$1.25.

Lavender

BYRON L. SMITH—Delicate lavender, deepest at the edges of the petals and shading toward white in the center; gives the impression of an orchid. Well arranged on good stem.

2 for 25c; 1/2 doz., 75c; doz., \$1.25.

Orange

ORANGE QUEEN—A very warm tint; large, open flowers on good stem; justly considered one of the very choicest novelties in Prim. Hybrids. Each, 10c; 1/2 doz., 60c; doz., \$1.00.

ALICE TIPLADY—Bright saffron-orange; large, open flowers on strong, stiff stem; excellent cutflower and forcer. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Pink

AMERICA—Delicate lavender pink, large flowers, borne on strong stems well placed. A very popular variety as a cut flower. 4 for 25c; 1/2 doz., 35c; doz., 60c.

LE MARECHAL FOCH—An early-flowering strong-growing variety with deep rose-pink flowers. The spikes are bold flowers, large and a good many in bloom at same time. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Salmon

MAIDENBLUSH—Superb light pink; flowers well placed on tall, slender stem; extra florist variety and the easiest and earliest forcer, oftentimes producing two and three spikes to the bulb. 3 for 25c; 1/2 doz., 40c; doz., 75c.

Red

FLAMING SWORD—Brilliant red, slightly overlaid with orange. Tall straight spikes with ten or more flowers open at a time. 3 for 25c; 1/2 doz., 50c; doz., 90c.

MRS. FRANCIS KING—Color is a very pleasant light scarlet, strikingly attractive. Separate flowers often measure 4 to 5 inches across and 5 to 6 flowers are open at one time. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Scarlet

SCARLET PRINCEPS—Flaming scarlet; large massive flowers, many open at a time, making a gorgeous display of dazzling red. 3 for 25c; 1/2 doz., 40c; doz., 75c.

Spotted

HALLEY—The color is a delicate salmon-pink with a slight roseate tinge, though the lower petals bear a creamy blotch with a stripe of bright red through the center.

4 for 25c; 1/2 doz., 35c; doz., 60c.

MRS. FRANK PENDELETON—The flowers are very large and well-expanded, of a lovely flushed salmon-pink with brilliant carmine, or deep blood-red blotches in the throat.

4 for 25c; 1/2 doz., 35c; doz., 60c.

White

LILY WHITE—A fine snow white variety. Good height and good sized blossoms. Six or seven blooms open at a time.

3 for 25c; 1/2 doz., 40c; doz., 75c.

PEACE—Flowers are large, of good form, correctly placed on a heavy, straight spike. Beautiful white, with pale lilac feathering on interior petals. 4 for 25c; 1/2 doz., 35c; doz., 60c.

Yellow

NIAGARA—Giant Yellow. In color the flowers are of a delightful cream shade with the two lower inside petals or segments blending to canary-yellow. The throat is splashed and tinted with carmine. The flower spike is very erect and stout and is wrapped with broad dark-green foliage. Each, 10c; 1/2 doz., 60c; doz., \$1.00.

SCHWABEN—A very vigorous grower, also very free flowering. A clear canary yellow shading to sulphury yellow when open.

3 for 25c; 1/2 doz., 50c; doz., 90c.

All 60c varieties.....	50,	\$2.25;	100,	\$4.25
All 75c varieties.....	50,	\$2.75;	100,	\$5.25
All 90c varieties.....	50,	\$3.25;	100,	\$6.25
All \$1.00 varieties.....	50,	\$3.75;	100,	\$7.00
All \$1.25 varieties.....	50,	\$4.50;	100,	\$8.50

Clover Leaf Gladioli Mixtures

CLOVER LEAF MIXTURE—Gladioli mixtures can be purchased at almost any price and under almost any name. Our advice would be not to purchase small bulbs simply because they are quoted cheaper. Difference in cost is far more than compensated for in the better satisfaction obtained by planting the larger bulbs.

We are offering our Clover Leaf Mixture in two sized bulbs, the only difference being in size, as the mixtures are exactly alike.

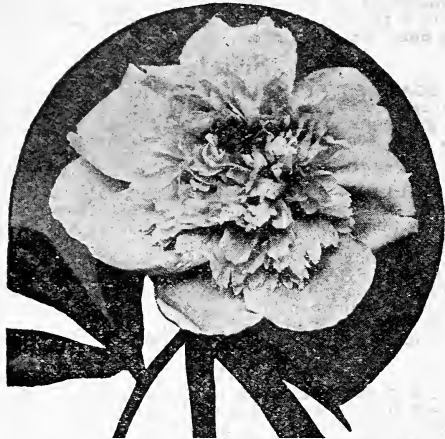
No. 1 Mixture—First size bulbs, each, 5c; doz., 60c; 50, \$2.25; 100, \$4.00.

No. 2 Mixture—Second size bulbs, each, 5c; doz., 50c; 50, \$1.75; 100, \$3.00.

LILY OF THE VALLEY—One of the most satisfactory and charming spring flowering plants producing in profusion its delicate bell-shaped delightfully fragrant white flowers. Lilies of the Valley thrive in any common soil, are perfectly hardy, and will succeed in shady situation. Each, 5c; 25, \$1.25; 50, \$2.25; 100, \$4.00.



Peonies



Peony

We have also marked the varieties as to the time of flowering; following explains the letters used: V. E. means very early, E.—Early, M.—midseason, L. M.—late midseason, L.—late.

ALEXANDER DUMAS—Medium size, light violet rose, creamy white collar of narrower petals, mingled with wide center petals. E 7.1. Each, 75c.

COURBONNE D'OR—Large, flat, semi-rose type. Pure white with ring of yellow stamens around a tuft of center petals tipped carmine. L 8.1. Each, 50c.

DORCHESTER—Large compact rose type, pale hydrangea pink, sulphur white collar. L 7.7. Each, 75c.

DUCHESSE DE NEMOURS—Pure white crown, sulphur white collar, no crimson flecks. Crown type. E 8.1. Each, 60c.

EDULIS SUPERBA—Large loose flat crown. Bright mauve-pink. Crown type. V E 7.6. Each, 60c.

EUGENIE VERDIER—Large, medium, compact, flat, semi-rose type. Pale hydrangea-pink. Collar lighter, center deeper, flecked crimson. E 8.6. Each, 60c.

FELIX CROUSE—Rose type, brilliant ruby red, one of the best and most popular kinds for cut flowers. M 8.4. Each, \$1.00.

FESTIVA MAXIMA—Very large globular rose type. Pure white center, prominently flecked crimson; outer petals sometimes faint lilac. E 9.3. Each, 50c.

L'INDISPENSABLE—Globular rose type, lilac white shading to pale violet rose toward center. L M 7.3. Each, 75c.

MARGUERITE GERARD—Large compact, semi-rose developing into a crown with stamens. Very pale hydrangea pink, fading to nearly white. Central petal flecked dark carmine. L 8.4. Each, 75c.

MME. CALOT—Large rose type. Pale hydrangea pink center shading darker. Collar tinged silver. V E 8.1. Each, 60c.

Special prices, postpaid, in straight or assorted lots:

		1/2 Doz.	Doz.
All	\$.50 Paeonies.....	\$2.75	\$5.25
All	.60 Paeonies.....	3.25	6.25
All	.75 Paeonies.....	4.25	8.00
All	1.00 Paeonies.....	5.50	10.50

Mixed Colors

These mixed colors are not mixed and sold cheap because of small roots or inferior blooms but because names and colors have been misplaced. Very highly recommended.

Each, 50c; 1/2 doz., \$2.75; doz., \$5.00.

Tritoma, or "Red-Hot Poker"

TRITOMA PFITZERI—Grows from four to six feet high; the flower-spike is often five feet high, and the flower measures twelve to fifteen inches long by four inches in diameter. They are a dazzling scarlet, lower half of flower tinged with rich orange. A clump makes a striking show.

Each 40c; 1/2 doz., \$2.25; doz., \$4.25.

Bermudas and Sweet Spanish, Reduced Prices

Onion Plants

Onion plants are being extensively used in some districts for producing large early matured onions, as matured onions can be secured from plants much sooner than from seed. The plants are good keepers so that there is little or no danger of them not growing. Besides, they are one of the easiest plants to grow. It is recommended to plant the rows sixteen inches apart and the plants three to four inches apart in the rows. If planted in this manner it will take about 100,000 to the acre. Do not plant too deep. Plants are put up in bundles of about 100 and sixty bundles to a crate. Count not



when we might be compelled to secure some plants in Texas, price would be higher.

Prices, Postpaid

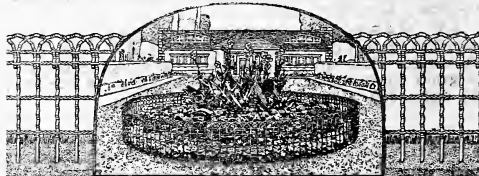
2 bundles	\$0.45
3 bundles .....	.60
6 bundles	1.00
10 bundles	1.50
Crate 60 bundles.....	6.00

Crate weighs about 30 lbs.

Add postage to crate price.

Not less than two bundles sold.

Flower-bed Border



Pickets of galvanized wire spaced 3 inches apart. Cables of galvanized wire spaced 6 inches apart, except two top cables which are spaced 2 1/2 inches apart.

Height, inches from top to bottom of pickets	List Price per Lineal Foot
16 in. to extend 12 in. above grade.....	\$0.10
22 in. to extend 18 in. above grade.....	12 1/2 c

Plants and Roots

(NO PLANTS OR ROOTS SENT C. O. D.)

Plants—Flowering—Perennials and Annuals

Variety	Prices		Variety	Prices	
	Postpaid	Postpaid		Postpaid	Postpaid
Alyssum	Doz.	100	Marigold	Doz.	100
Asters	\$0.35	\$3.50	Mignonette	\$0.35	\$3.50
Carnations	.35	3.50	Pansies	.75	5.50
Cosmos	.35	3.50	Petunia	.35	3.50
Daisies	.35	3.50	Salvia	.35	3.50
Dahlias	.35	3.50	Snapdragons	.35	3.50
Dusty Miller	.35	3.50	Stocks	.35	3.50
Geraniums, 3-in. pots	.40 each	4.50 doz.	Verbenas	.35	3.50
Heliotropes	.35	3.50	Wallflowers	.35	3.50
Lobelia	.35	3.50	Zinnias	.40	4.50

Plants—Vegetables

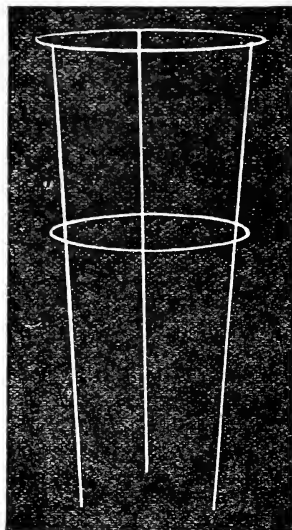
Please note that the quotations made on non transplanted plants are for outdoor grown plants, hence price does not apply to plants started and grown in hot beds or under glass. Outdoor grown plants are usually ready about May 15.

Variety	POSTPAID			NOT POSTPAID	
	Doz.	50	100	500	1000
Brussels Sprouts	\$0.20	\$0.60	\$1.00	\$	\$
CABBAGE—					
Early Jersey Wakefield, transplanted	.25	.75	1.00	3.75	7.00
Early Jersey Wakefield, not transplanted	.20	.50	.75	2.75	5.00
Danish Ball Head, not transplanted	.20	.50	.75	2.75	5.00
Red, not transplanted	.20	.50	.75	.....	.....
Copenhagen Market, not transplanted	.20	.50	.75	2.75	5.00
CAULIFLOWER—					
Snowball, transplanted	.30	1.00	1.50	.....	.....
Snowball, not transplanted	.25	.75	1.00	3.75	7.00
CELERY—					
White Plume, transplanted	.25	.75	1.25	3.25	6.00
White Plume, not transplanted	.20	.65	1.00	2.75	5.00
Golden Self-Blanching, transplanted	.25	.75	1.25	3.25	6.00
Golden Self-Blanching, not transplanted	.20	.65	1.00	2.75	5.00
Celeriac	.25	.75	1.25	.....	.....
Egg Plant	.30	1.00	1.50	4.25	8.00
Parsley	.25	1.00	1.25	.....	.....
PEPPERS—Transplanted—					
Chinese Giant	.30	1.00	1.25	3.75	7.00
Ruby King, transplanted	.30	1.00	1.25	3.75	7.00
Bull Nose, transplanted	.30	1.00	1.25	3.75	7.00
Cayenne, transplanted	.30	1.00	1.25	3.75	7.00
Cherry, transplanted	.30	1.00	1.25	3.75	7.00
TOMATOES—					
Earliana, transplanted	.30	1.00	1.50	4.75	9.00
Earliana, not transplanted	.25	.75	1.25	2.75	5.00
Bonny Best, transplanted	.30	1.00	1.50	4.75	9.00
Bonny Best, not transplanted	.25	.75	1.00	2.75	5.00
Husk or Ground Cherry, transplanted	.30	1.00	1.50	.....	.....

Roots

Variety	POSTPAID			NOT POSTPAID	
	Each	Doz.	50	100	500
ASPARAGUS—					
Palmetto, 1 year old	\$0.25	\$0.75	\$1.00	\$3.25	\$6.00
Palmetto, 2 years old	.40	.85	1.50	5.25	10.00
Palmetto, 3 years old	.50	1.50	2.25	7.75	15.00
Hop	.75	2.75	5.00	7.75	15.00
Horseradish	.30	1.00	1.50	5.50	10.00
Mint	.75	2.50	4.00	.....	.....
Chives, small bunch					
Rhubarb, 1 year old	\$0.15	\$1.25	\$	\$	\$
Rhubarb, 2 years old	.15	1.25	3.25	5.00	15.00
Rhubarb, 3 years old	.25	1.75	4.50	8.00	30.00

PRICES NOT GUARANTEED, BUT ARE SUBJECT TO CHANGE



Peony and Plant Supports

Are made of strong galvanized wire. Will not rust. The very best support for peonies, tomatoes and such plants. Very strong and durable and can be used to advantage with a great number of different kinds of plants and flowers and will last for years.

Price of Plant Supports

No.	Wire Gauge	Diameter Top Ring	Diameter Lower Ring	Length Side Wires	Weight Each
1.....	No. 6	14	12	30 in.	1 1/2 lbs.
2.....	No. 6	18	16	30 in.	2 1/2 lbs.
3.....	No. 3	24	16	36 in.	3 1/2 lbs.
Add postage.					

Plant Props

Are desirable for supporting all kinds of flowers and vegetables that need support, such as tomatoes, dahlias, etc.

They are made of 6-gauge galvanized wire, will not rust, and eliminate the yearly chore of hunting and cutting wood sticks.

They have a loop at the top which is electric welded and prevents all string from slipping out of loop.

There are four grooves at even intervals on the prop to tie the plant, according to its height.

Price of Plant Props

No.	Height	Wire Gauge	Each	1/2 Doz.	Doz.	25	50	100	Weight Doz.
4.....	36 in.	No. 6	\$0.10	\$0.60	\$1.10	\$2.25	\$4.00	\$7.50	4 lbs.
5.....	48 in.	No. 3	.20	1.20	2.25	4.00	7.50	14.00	9 lbs.
6.....	60 in.	No. 3	.25	1.50	2.75	5.00	9.50	17.50	11 lbs.
Add postage.									

Bamboo Stakes

PAINTED GREEN

Height	Quantity	Doz.	25	50	100
3 feet		\$0.30	\$0.50	\$0.85	\$1.50
4 feet .....		.40	.70	1.25	2.00
6 feet bamboo poles 1x1 1/4 in, not painted.....		1.50	3.00	5.75	11.00

Strawberries

MASTODON

Greatest Everbearing Strawberry

MASTODON is rightly named and without doubt is the largest and best everbearing strawberry. It is a very mastodon in the size of its big, red, luscious berries. Their glossy red color and bright yellow seeds give them a beautiful appearance, and their firm flesh and tough skin make them an excellent shipper.

PROGRESSIVE—As a home garden berry the Progressive fills the bill. The Progressive is a persistent bearer from the time plants are set in the spring until hard freezing, and again is the first to bloom in the following spring, and yields a good crop same time as other varieties.

One Crop Varieties

AROMA—Among the best of the late ripening varieties. Quality the best of any, comes nearer being the true strawberry flavor than all others. Its shipping qualities are of the best.

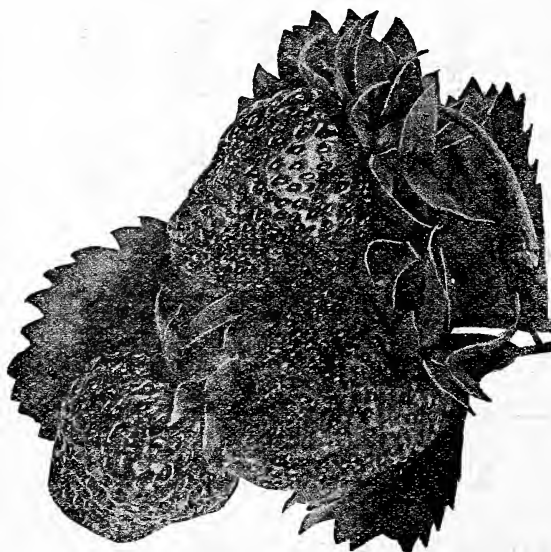
BLACKMORE—Introduced by the Government in 1928. Large and finely flavored. Very solid, hence a good keeper and shipper. A heavy producer.

GLEN MARY—A bright, handsome, prolific, standard sort, grown the country over and perfectly reliable. Some large growers claim for this the par excellence in strawberries.

HOOD RIVER—The leading standard shipping variety. Dark red color, uniform size, good quality, but not heavy in yield. A specialty berry for the grower whose market is somewhat distant.

MARSHALL—Produces remarkably large, beautiful fruit, resembling the Glen Mary.

OREGON—A fadeless, dark red exterior; the deep red color is extended clear to the center of the fruit. Exceptionally fine for canning. Any



variety that we offer will fertilize it except Aroma.

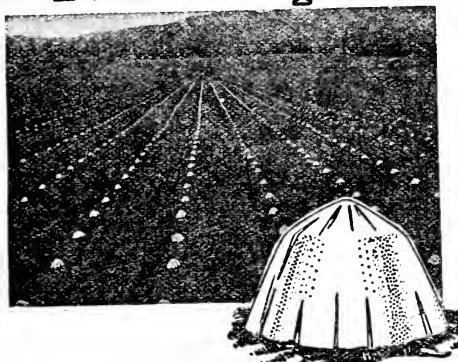
SENATOR DUNLAP—Its color is a rich dark red, with glossy finish. It has become a very popular variety, perhaps on account of its uniformity.

	Doz.	25	50	100
Mastodon	\$0.50	\$1.00	\$1.50	\$2.75
Progressive	\$0.50	\$1.00	\$1.40	\$2.25
Blackmore	\$0.50	\$1.00	\$1.40	\$2.25
All Other Berries.....	\$0.50	\$0.50	\$0.75	\$1.25

NOT PREPAID

	200	500	1000
Mastodon	\$4.50	\$10.25	\$20.00
Progressive	\$3.00	\$6.25	\$12.00
Blackmore	\$3.00	\$6.25	\$12.00
All Other Berries.....	\$2.00	\$4.25	\$8.00

Hotkaps



Hotkaps are miniature hothouses, manufactured from wax paper, under which the seed of melons, tomatoes, peppers, etc., can be planted, thereby saving the cost of labor of transplanting. Young plants under HOTKAPS are protected from frost and insects and will mature more quickly than those transplanted.

1000	\$1.00 per 100
Less than 1000	1.15 per 100
Less than 500	1.25 per 100
Less than 100	25c per doz.
Lots of 5000	\$9.75 per 1000

Thousand weigh 26 lbs. Add postage.

We have also Hotkaps in small packages containing 250, which includes garden setter with tamper. Price, \$4.00.

Weight, 10 lbs. Add postage.

HOTKAP SETTERS

In placing the "Hotkaps" over the plants, the "Hotkap Setter" will prove very helpful. This is a small steel cone, the exact shape of the "Hotkap" itself, with a handle at the top.

Weight, 3 lbs. Add postage. Price, \$2.50.

HOTKAP CARRIERS

To make it easier to set them out in quantities, a specially made carrier, holding approximately 150 "Hotkaps," will be found very convenient. Price, \$2.75; postpaid, \$2.90.

Plant Pots

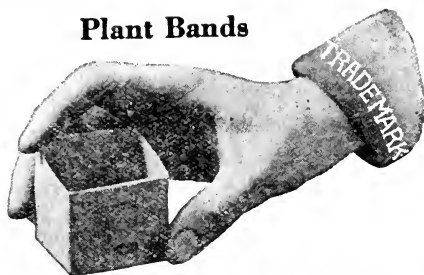
Plant pots and plant bands are made exactly of the same material, the only difference being that bands have not any bottom while pots have. You will also notice difference in size. 3x3 inches.

Case 2,000	\$11.50 per case
1,000	\$6.50
500	3.50
250	2.00
Dozen lots .....	.15

Packed 250 in carton.

Weight of 250, 5½ lbs. Add postage.

Plant Bands



They come already folded and set up. All you have to do is open them, set them in a box close together and fill with dirt, and put in the plant. The simplest way to handle plants for transplanting is to grow them in our Ready-to-Use Plant Bands. They make an ideal worm guard. Size 2x2 inches.

Case 5,000	\$16.00 per case
1,000	\$4.00
500	2.25
250	1.50
Doz. lots .....	.10

Packed 250 in carton.

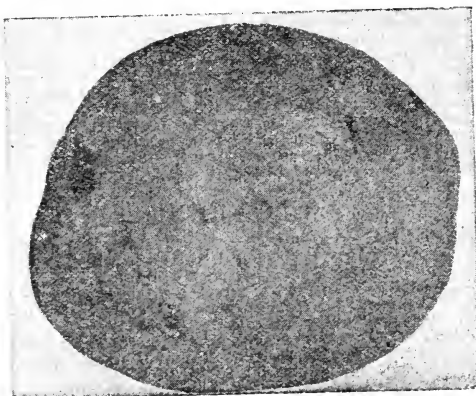
Weight of 250, 2¼ lbs. Add postage.

Potatoes

Potatoes can be grown in any soil provided it is well drained, but if grown on sandy, rich soil, they will be of better quality than if planted on clay soils. Sod land is most excellent for this crop.

PRICES—Owing to the great uncertainty regarding values we are unable to make definite prices at present.

Write for prices, stating amount wanted.



Bliss Triumph or Six Weeks

Early

BLISS TRIUMPH OR SIX WEEKS—This is recognized as being one of the very earliest varieties grown, and in addition it is also one of the best yielders of the early varieties. Besides these two very important advantages, it possesses a third, namely: its quality.

OHIO—A leading early sort. Round, short, and thick tubers, smooth and solid; cooks dry and mealy and matures very early.

EARLIEST OF ALL OR EARLY EUREKA—Is a shallow-eyed white-skinned variety of vigorous growth. The tubers are smoother and have fewer eyes than most other varieties. While it is a very early potato, it is also a good keeper.

Medium

IRISH COBBLER—The tubers are round, somewhat flattened with rather deep eyes and are medium to large in size. The skin is smooth, finely netted, and white in color. Flesh white, of fine quality and flavor.

Late

NETTED GEM—The hardiest, most vigorous in growth, most productive, and the best in table quality of all potatoes. It has proved to be unequalled for main crop. The vines are strong, with deep green foliage. In form the tubers are medium long. The eyes are small and there is very little waste in paring.

Write for prices, stating amount wanted.

CERTIFIED STOCK

The present arrangement for certified potatoes in the states of Idaho and Washington are a blue tag and a red tag. The blue tag is certified as to variety, freedom of disease and type and has been inspected at least twice in the field, also inspected at time of shipment. Size, from 2 to 12 ounces.

Red tag has also been inspected but has not been as closely graded as the blue tag and will not conform to the requirements for the blue tag.

Write for prices, stating amount wanted.

Field Seeds

are so well known that it seems unnecessary to enter into any lengthy description of them.

The principle on which we have always conducted our business has been that the best field seeds obtainable are not only the best to sow but the most economical, hence are the cheapest. It certainly is very unwise for a farmer to deliberately sow weed seed, because he has made a saving in first cost of perhaps \$2.00 per 100 pounds. Will be glad to forward samples and quote if you advise how much you are going to purchase as at the present time we are unable to quote with any degree of accuracy.

CLOVERS

ALFALFA, Common variety. Most generally sown. Prepare seed bed thoroughly. Permanent for years. Heavy yielder.

ALFALFA, Grimm—A hardier variety than the Common. Different root system. Not subject to winter killing.

ALSYKE—Produces large crops of excellent hay. Finer than Red Clover. Not so dusty. Stands drouth well.

RED, Medium—Standard variety. Highly recommended for enriching the soil. Hardy, and yields well on any soil.

RED, Mammoth—Heavier yielder than the Medium. Matures later. Foliage, flower, and stem dark color.

SWEET, White Blossom—Erect branching biennial. Stems woody. Grows from five to eight feet high.

SWEET, Yellow Blossom—Same family as the White Blossom. Does not grow so high. Finer stem and earlier.

WHITE DUTCH—Low growing. White blossoms. Fragrant. Makes excellent pasture. Used largely for lawns.

GRASSES

BENT, Creeping—Fine texture. Valuable for lawns and golf courses. Rapid grower. Spreading habit. Permanent sod.

BLUE GRASS, Canadian—Hardy. Suitable for dry, poor soils. Six to eight inches high. Wiry. Very nutritious.

BLUE GRASS, English—Grows from three to four feet high. Deep rooted. Heavy yielder of superior hay. Makes good pasture.

BLUE GRASS, Kentucky—Very sweet and nutritious. Starts growth early in spring, remaining green until winter. Very hardy. Used for lawns.

BROMUS INERMUS—Introduced as a grass for dry sections. Withstands drouth well. Produces leaves abundantly.

CANARY GRASS—Known as water grass, as it delights in marshy places. Grows from six to seven feet high.

FESCUE, Cheewing—Small, hardy low growing. Fine dark green leaves about six inches high forming a close turf.

FESCUE, Hard—Deep green in color. Grows to a height of one and one-half to two feet. Thrives in the shade.

FESCUE, Sheep—Known as a bunch grass and forms large tufts three to six inches in diameter. Somewhat woody.

ORCHARD GRASS—Stands the drouth. Grows well in the shade. Does well in wet or poor ground.

RED TOP—Valuable for moist rich soils where it grows very luxuriantly. Grows from one to two feet high.

RYE, English—Valuable for pasture, as it produces an abundance of foliage. Hay is fine and relished by stock.

RYE, Italian—Annual, quick grower. Attains a height of two and one-half to four feet. Does best on moist soil and cool climate.

SUDAN GRASS—Annual. Grows from seven to nine feet. Small stems about size of pencil lead. Wonderful stooler.

TIMOTHY—Best and longest of all grasses and most generally used. Height from two to three feet.

LAWN GRASS

CLOVER LEAF MIXTURE—Do not buy a low priced lawn grass. Cheap lawn grass can only be secured by a mixture of low priced seeds. Your lawn is the introduction to your home. Make first impressions favorable.

MILLETS

GOLDEN—Rank Grower. Splendid variety for hay. Grows from four to five feet on rich soil. Cut when in bloom.

SIBERIAN—One of the very earliest. A very heavy cropper. Hay finer than Golden and grows taller. Rust proof.

MISCELLANEOUS

BUCKWHEAT, Japanese—Heavy yielder. Very early. Stands up well. Excellent bee pasture.

BUCKWHEAT, Silver Hull—Light gray color. Thin husk. Popular variety. Heavy yielder. Good milling variety.

FETERITA—Belongs to the Sorghum family. Early. Heavy yielder. Drouth resistant. Free from insect pests. Wonderful stooler.

FLAXSEED—It has been customary to sow on virgin sod. Satisfactory yields obtained in 1930 from old lands in the Palouse Country.

KAFFIR CORN—Attains a growth of from four to five feet, the stalk producing numerous wide leaves.

KALE, Thousand Headed—Does best in cool, moist locations, proving it to be a wonderful forage plant.

LENTILS—Succeed best in dry, sandy soil. Used largely for soup. A leguminous annual. Straw makes good feed.

RAPE, Dwarf Essex—Used solely for securing green feed. Pigs, sheep and cattle all relish it. Rank grower.

SUGAR CANE—Early Amber. Earliest, richest, best sort for northern latitudes. Can be grown where corn can be produced.

SUNFLOWER—Grown as a forage plant. Seed used for poultry, as it is very rich in oil.

VETCHES, Spring—All Vetches belong to the pea family. In the Inland Empire Spring Vetches will not withstand the winters.

VETCHES, Winter or Sand—Can be sown in fall or spring and will produce a crop. Heavy yielder.

PEAS

CANADIAN—The most popular of the white varieties. Seed almost white. A heavy cropper. Very tall vines.

ALASKA—Green smooth seed. Earlier and less straw than the Canadians, and for this reason more popular.

NEW ERA COW PEAS—Extra early variety. Especially adapted for planting in a northern latitude.

WHIPPORWILL—About ten days later than the New Era. Prolific yielder. Vigorous grower.

Grain

Wheat

There is wheat and wheat, and it is penny wise and pound foolish to sow inferior quality. This inferior quality may be because the grains have not been fully developed or on account of impurity, or on account of improper cleaning. We guard against all three, hence our quality is right.

Winter—Jones Fife, Martin Amber, Gold Coin, Riddit.

Spring—Bluestem, Marquis, Early Bart, Federation.

Write for prices, stating quantity wanted.

Barley

It seems almost impossible for us to purchase Beardless Barley on the open market with any assurance of securing a quality that will come up to our idea of Beardless Barley. Last season we contracted with reputable farmers to grow some of this for us, furnished the best seed we could secure, rogued twice while growing, and now offer Beardless Barley of a very high quality and as free from the bearded type as it is possible to secure. Ask for prices.

Rye

SPRING RYE—Spring Rye is an excellent catch crop where winter grain has been killed out, or for sowing where a full crop has not been planted. If desired it can be turned under and made to answer a good purpose in adding to the fertility of the soil. Ask for price.

WINTER RYE—Rosen Rye is a stiff-strawed, large headed variety which ordinarily has four full rows of grain on over 99 per cent of its heads. It yields much better than the common winter rye, is very hardy and seldom winter-kills.

Rosen Rye outyields common rye from 25 to 50 per cent. Ask for price.

Write for prices, stating amount wanted, or we will fill all orders at price prevailing on date of shipment, sending grain for the amount of remittance received.

Oats

We handle the varieties mostly grown. Our quality will be as good as careful selection and recleaning can make them.

Markton Oats

The outstanding features of Markton oats are their immunity to covered smut and their superior yield. It is an erect, mid-tall, mid-season variety with a branching panicle. One of their distinguishing characteristics is the presence of



Markton Oats

hairs on the clum at the nodes. The kernels of Markton are yellowish white, long and slender and have a rather thin hull.

It is fortunate that the characters of immunity to smut, high yield and good quality could be combined in a single variety of oats.

Write for prices, stating quantity wanted.

Nursery Stock

Make an examination of shrubbery and trees as soon as received, and should there be any reason for complaint we ask that this be reported at once, as the growth of the root depends largely upon manner of planting and care afterwards. Therefore, if a root is in good condition when received, we feel that we have done our part and cannot be responsible for non-growth, as it is evident that the reason for non-growth has been due to some local conditions for which we cannot be held responsible.

Add 10c for postage when your order only calls for one root and 3c per root when three or more are ordered. This will equalize postage charges, though in some cases this postage will be too much while in other instances it will be too little.

VINES AND CLIMBERS

IVIES

BOSTON IVY—Japanese Ivy. Best known and most popular climber for chimney, brick and stonework. Graceful and showy foliage, thrives under all conditions. Each, 50c, 75c.

ENGELMANNI—Deeply cut leaves which turn to a beautiful crimson in fall. Clings to walls without aid of artificial support. Vigorous growth. Each, 50c, 75c.

VIRGINIA CREEPER OR AMERICAN IVY—Fast growing, hardy creeper, massive foliage, deeply cut leaves which turn to a beautiful crimson in fall. One of the very best for porches, trees, rocky slopes, etc. Each 50c.

CLEMATIS

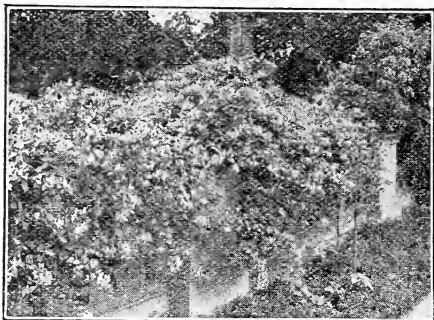
HENRYI—Large single white flower, most popular of its color. Each, \$1.00.

JACKMANI—Large velvety dark purple flower, very showy.

1 year old, 50c; 2 year old, \$1.00.

PANICULATA—The late flowering Japanese variety with panicles of small white fragrant flowers borne in great profusion in early fall. Very desirable, entirely hardy. Each, 50c, 75c.

HONEYSUCKLES



BELGIA OR EVERBLOOMING—Flowers yellow, blotched with red above; blooms all summer, fragrant. Each, 50c, 75c.

HALL'S JAPAN—Practically evergreen, retaining its rich dark green foliage most of the winter. Blooms continuously from June until frost; fragrant, white and yellow flowers, in great abundance. Each, 50c, 75c.

SCARLET TRUMPET—Trumpet shaped flowers of bright scarlet.

Each, 50c, 75c; add postage.

WISTARIAS

JAPANESE PURPLE—Grafted purple variety, vigorous and tall growing vine with bright green foliage, flower light purple in loose drooping racemes 12 to 30 inches long. Fine anywhere that a vine may be used but especially good on arbors and pergolas where the long racemes may hang through. Price, \$2.50.

Common purple, each 75c, \$1.00, \$1.50.

Add postage.

BEST HARDY PERPETUAL ROSES

Two Year Old. Each, 50c; add postage.



AMERICAN BEAUTY—One of the largest, sweetest and best; rich rosy crimson, shaded and veined in a most charming manner. 75c.

GENERAL JACQUEMINOT—The old favorite "Jack" Rose is still popular. The blossoms are large, full, and globular, having an excellent cup-shaped form. In color they are brilliant scarlet-crimson, with deeper veinings toward the petal bases.

GEORGE DICKSON—It is one of the best dark roses in existence. The blooms are as nearly perfect as those of any rose, large, full and fragrant. The color is deep velvety crimson, almost black on the front of the petals, while the reverse side is heavily and deeply veined with rich crimson-maroon.

GRUSS AN TEPLITZ—One of the best garden roses, giving many beautiful flowers from early June until frost kills the buds. The flowers are crimson-scarlet, bright enough to attract the attention of the observer, but not vivid enough to throw other sorts into the background.

HUGH DICKSON—Intense crimson, shaded scarlet; very large; full and magnificent form, with high pointed center. Delightful perfume. A gold medal rose.

MRS. JOHN LAING—Extremely large blooms of soft pink. Long buds; cup-shaped, fragrant flowers. Strong grower, free bloomer. A very popular rose.

PAUL NEYRON—The largest rose in existence, frequently reaching 6 inches in diameter. The color is clear pink, shading to soft rose; has a delightful fragrance. The plant is a strong, heavy grower and blooms several times during the season.

URICH BRUNNER—Extra-large flowers of light red, bordering on scarlet or crimson—a shade of red distinctly its own. The flowers are borne in profusion on long stems. A very vigorous grower. A variety of standard excellence.

HARDY EVERBLOOMING HYBRID TEA ROSES

Two Year Old. Each, 50c, except where quoted; add postage.

Cream and White

DUCHESS OF WELLINGTON—Intense saffron-yellow stained with rich crimson. Very large and fine form. Beautiful in bud as well as open flower.

ETOILE DE LYON—Clear, bright, golden yellow; makes beautiful buds and is very double and sweet.

KAISERIN AUGUSTA VICTORIA—Pure white, does not pink when planted out; splendid large buds and superb, full, double blooms. A most sturdy grower, blooming steadily from early spring until late frost.

Crimson and Red

EDWARD MAWLEY—One of the finest roses known. The buds are deep purplish crimson, opening to extra-large, perfectly formed blooms of dark blackish crimson.

ETOILE DE FRANCE—Intensely brilliant crimson. A very free bloomer and a most excellent rose.

HOOSIER BEAUTY—A large, full flower with well shaped buds; color is an exceptionally attractive glowing, velvet crimson. Each, 75c.

RICHMOND—Originated by an experienced American grower. The blooms are very large and full. The color is a beautiful scarlet-crimson. For several years Richmond has been considered one of the best roses of American origin, and it well merits this distinction.

Pink Shades

KILLARNEY BRILLIANT—The introducers describe it in these glowing words: "An improvement on the original Pink Killarney, because of its more brilliant color, which is almost crimson in bright weather. One of the best of the recent originations and very popular."

LA FRANCE—This was the very first Hybrid Tea Rose. The flowers are large and have a beautiful globular shape. In color a bright pink on outside of petals, and a lovely silvery pink on the inside. The leather-like foliage is deep hunch green in color, contrasting nicely with the handsome blooms.

MME. CAROLINE TESTOUT—A grand rose, with large full flowers and handsome buds; rich pink. The hardiest of the Teas.

Yellow

BETTY—One of the points of excellence that recommends Betty is its long blooming period—from June until frost. The blooms are extra large in size, full and globular in form, with a delightful fragrance. The color is a coppery rose everspread with golden yellow. Very good autumn bloomer. Each, 75c.

CONSTANCE—Buds streaked with crimson, becoming large, full, globular flowers of shades of yellow. Each, 75c.

MRS. AARON WARD—One of the most beautiful roses of recent years in a color that catches the eye at once. A deep golden orange shading to lemon or creamy yellow at the edge of the petals. Each, 75c.

SOUVENIR DE CLAUDIUS PERNET—Its color is a definite and lovely sunflower-yellow, deepening in the center, and it retains this color indoors and outdoors, in bud and open bloom. Brilliant green foliage and very many thorns. The buds are produced on long, stiff stems. Each, 75c.

SUNBURST—The introducer of this wonderful rose describes it in these words: "Sunburst is a vigorous grower of robust constitution, with erect or slightly spreading habit and few thorns; fine reddish green bronzed foliage. The buds are long and generally borne on long stout stems; the flowers are large, full, and of fine elongated cupped form. The color is a superb cadmium-yellow passing to yellow-orange in the center." Each, 75c.

NEW EVERBLOOMING ROSES

Two Year Old. Each, 75c; add postage.

GORGEOUS—Flowers are large and full. Deep orange yellow and heavily vined with reddish copper, the most charming and gorgeous colorings that have yet been produced.

LADY HILLINGDON—Deep apricot yellow; long and pointed buds. Excellent for cutting.

LOS ANGELES—One of the finest roses ever introduced. In color a luminous flame-pink, toned with coral and shaded with translucent gold at the base of the petals.

MRS. HENRY WINNETT—The finest of all red or crimson varieties. The buds are long and well formed. A superb red rose.

WILLOWMERE—Carmine-coral red bud, opening rich, shrimp-pink, shaded yellow in the center and toning to carmine-pink at the petal edge. A very beautiful rose.

HARDY CLIMBING ROSES

Each, 50c, except where otherwise quoted; add postage.

CLIMBING AMERICAN BEAUTY—Heavy strong grower; hardy everywhere. Color rich red passing to crimson. Very popular. Each, 75c.

CLIMBING GRUSS AN TEPLITZ—A perfect sheet of crimson when in bloom. It's the same as the Bush Teplitz.

CRIMSON RAMBLER—One of the best Roses known today. Hardy as oak; withstands every climate; grows rapidly and blooms all season long. Double deep crimson flowers borne in large clusters. A plant under favorable conditions grows to a great height the first season.

DOROTHY PERKINS—Beautiful shell-pink color, which holds for a long time, fading finally to a lovely deep rose. Free of mildew.

DR. W. VAN FLEET—Large, double flowers of a dainty flesh pink with rosy center. Flowers are of perfect form with reflex petals and are carried on long stems suitable for cutting.

PAUL'S SCARLET CLIMBER—Vivid scarlet, shaded crimson; makes a brilliant display for a long period of time.

WHITE DOROTHY PERKINS—A sport from Dorothy Perkins, possessing all the fine qualities of that grand variety; but having pure white flowers.

FLOWERING SHRUBS

ALMOND—Spring flowering shrubs, gaily in full bloom before the leaves appear. Their growth is dwarf, bushy and compact; slender branched; when in bloom completely hidden by beautiful, double flowers of rose or white, snuggling tight to the twigs. Double white and Double Pink, 2 to 3 feet, 50c to \$1.00; add postage.

ALTHEA—(Rose of Sharon)—Bloom late in August and September, with a profusion of large bright colored flowers. Each, 50c.

BARBERRY—BERBERIS

COMMON—Sturdy, erect-growing shrub, with grooved, spiny branches and light green, prickly leaves; golden yellow flowers in spring, followed by bright scarlet fruits in autumn, which persist through the winter. Two to three feet, each, 50c; 3 to 4 feet, each 75c.

THUNBERG'S JAPANESE—Hardy, dense, low-growing shrub, with spreading, deeply grooved, thorny branches and small, bright green, oval leaves that turn to brilliant shades of orange and yellow in autumn; the large, bright red berries remain on the bushes throughout the winter. Each, 35c, 50c, 75c.

PURPLE—A showy and effective shrub with purple leaves; yellow flowers in May; reddish purple berries in autumn, which persist nearly all winter. Each, 75c, \$1.00; add postage.

CRANBERRY—HIGH BUSH

Handsome, dense, brilliant green foliage, a rich setting for large bunches of crimson berries which enliven the late summer and persist on bare branches into the winter. Two feet, each, 50c; 3 feet, each, 75c; 4 to 5 feet, each, \$1.00, \$1.25, \$1.50; add postage.

DEUTZIAS

An ornamental shrub that is grown because of its profusion of snowy white flowers in spring or early summer. A thinning out of the old wood soon after the flowering season will be of advantage, but this should be done with caution for the greatest bloom is obtained from plants that have had a minimum of pruning. Very effective for borders of shrubberies.

LEMOINES—Small, spreading shrub that is vigorous in growth and produces large white flowers. Very effective for border planting; 12 to 18 inches, each, 50c; 18 to 24 inches, each, 75c.

PRIDE OF ROCHESTER—A distinct and vigorous-growing variety that comes into bloom early and delights the eye with its large, double, white flowers which are tinged with pink in the bud; 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c; add postage.

Special prices, mailing size, each, 25c; 3 for 50c, if three of one variety. Postpaid.

DOGWOOD—CORNUS

DOGWOOD—(Cornus)—The shrubby dogwoods are mainly valuable for the brilliancy of their barks and berries and the handsome variegations of their foliage.

SIBIRICA—Clusters of fine white flowers in summer, succeeded by ornamental berries in fall; stem and branches turning to blood-red in winter. Each, 75c.

LUTEA—A striking yellow-branched form of *Stolonifera*. Each, 75c.

ELEGANTISSIMA—Variegated, silver-leaved. Each, 75c.

Special price, mailing size, 25c each; 3 for 50c. Postpaid, must be one variety.

FLOWERING CRABS

ATROSANGUINEA—Dark red flowers. The buds are deep purplish red, and the entire flower tinged purplish.

BECHTEL'S DOUBLE FLOWERING CRAB—One of best; vigorous; fragrant, large, double flowers, delicate shell pink.

FLORIBUNDA—Japanese; profuse rose-colored flowers followed by red fruit. Each, 75c to \$2.00.

FORSYTHIAS

One of the first plants to flower in early spring, blooming before the leaf buds burst on other plants in exquisite splendor and brilliancy. They thrive in almost any fertile soil, but should be planted where they will receive the benefit of the early spring sunshine.

FORTUNEI—Bark bright yellow; blooms in dense masses of golden flowers in early spring.

SUSPENS A (Weeping Forsythia)—A very useful shrub with a wealth of slender, vine-like, drooping branches, and profusion of golden bell-like blooms. All varieties of Forsythias. Two to 3 feet, each, 50c; 3 to 4 feet, 75c; special price, mailing size, 25c each, or 3 for 50c, one variety, postpaid.



HYDRANGEA

HILLS OF SNOW or Snowball Hydrangea—One of the most showy of the Hydrangeas, with its profusion of snow-white clusters of flowers decorating the plant most of the summer similar to the well known snowball in appearance. Very showy. Each, 50c, 75c, \$1.00.

PANICULATA GRANDIFLORA, LARGE FLOWERED—A grand plant, showy and attractive, remaining in bloom for a month. Flowers are pure white, afterward changing to pink, and are borne in immense clusters, beginning in July and holding them until October. 18-inch, 50c; 24-inch, 75c; 30-inch, \$1.00; add postage. Special price, mailing size, 25c each, or 3 for 50c. If one variety, postpaid.

LILAC

COMMON (Purple or White)—Hardy and extra fragrant, flowering in May and June.

HUNGARIAN LILAC—Tall grower; late purple flowers.

Japanese Lilac—With large panicles of white flowers.

PERSIAN LILAC (Purple)—Blossoms a good deal more than the Common, and has smaller leaves. Does not sprout as much from the roots. All lilacs, 75c to \$1.50.

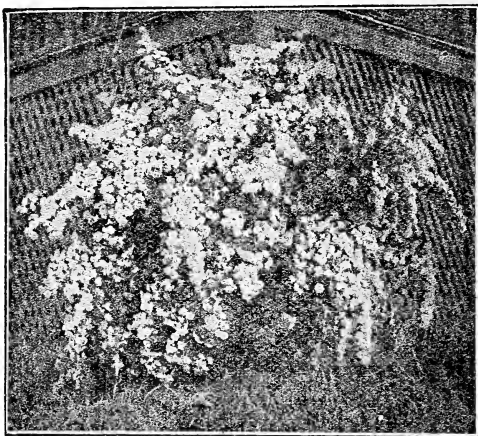
QUINCE FLOWERING

QUINCE JAPAN OR FLOWERING (*Cydonia Japonica*)—Low spreading shrub, the branches of which are armed with formidable thorns. In early spring the branches are hidden by the wealth of dazzling scarlet flowers. The quince-shaped fruits are quite fragrant. 12 to 18 inch, 50c; 18 to 24 inch, 75c; 2 to 3 feet, \$1.00; add postage.

SNOWBALLS

COMMON—The old-fashioned favorite with large, globular clusters of white sterile flowers blooming the latter part of May. Very useful for specimens or for planting in groups. 50c, 75c, \$1.00.

DOUBLE JAPANESE (*Pilcatum*)—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers like real balls of snow; covered with bloom for weeks in the spring. Grows 4 to 6 feet high; entirely hardy, needs no protection; splendid for doorway, lawn and cemetery planting. Two feet, each, \$1.00.



SPIREAS

Anthony Waterer—Covered nearly the whole growing season with large umbels of deep crimson flowers. 50c, 75c, and \$1.00.

PRUNIFOLIA (Bridal Wreath)—Slender erect-growing variety having beautifully colored foliage, and bearing very early in the spring small double white flowers the entire length of its branches. Very graceful habit. Two feet, 60c; three feet, 75c.

THUNBERGI—Low-growing of compact form, with delicate light green foliage which colors up beautifully in the fall. Small white flowers in great profusion, early in the spring. 50c and 75c.

VAN HOUTTEI—The grandest of all the Spiraeas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete

fountain of white bloom, the foliage hardly showing. Perfectly hardy and an early bloomer. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c, \$1.00; add postage.

Special mailing size, 25c each, or 3 for 50c, one variety. Postpaid.

SYRINGA OR MOCK ORANGE

GORDONIANUS—Very late bloomer, valuable for this quality, a large, fragrant white flower. Two to 3 feet, each, 50c; 3 to 4 feet, each, 75c; 4 to 5 feet, each, \$1.00.

GRANDIFLORUS—Good large flowered, strong growing sort that is very desirable. Two to 3 feet, 50c; 3 to 4 feet, 75c; 4 to 5 feet, \$1.00; add postage.

VIRGINALIS—A magnificent new variety. Moderately tall and good foliage. The double, semi-double and single flowers are large, handsome and fragrant. 2 feet to 3 feet, 75c. Special mailing size, 25c each, or 3 for 50c, one variety, postpaid.

WEIGELIAS

CANDIDA (White)—Hardy variety, vigorous and fine in habit. Long tubular white flowers produced from June on throughout the summer. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

EVA RATHKE—A free flowering bright red variety of rather dwarf habit. 50c and \$1.00.

ROSEA—The old standard, strong growing, pink flowered variety. 2 to 3 feet, each, 50c; 3 to 4 feet, each, 75c.

ROSEA VARIEGATA (Variegated)—A near dwarf shrub, valuable for the clearly defined variegation in its leaves of green, yellow and pink. Effective and useful, being one of the best variegated leaved shrubs known. Flowers light pink and blush. Each, 50c and 75c; add postage.

Special mailing size 25c each, or 3 for 50c, one variety. Postpaid.

FRUIT

BLACKBERRIES—Bush

Two year old: Each, 25c; 3 for 50c, doz. \$1.75; 50, \$6.00. 100, \$11.00; add postage.

BLOWER—Fruit large, jet black, good shipper, hardy, productive and of finest quality.

EARLY HARVEST—Its earliness, combined with good shipping qualities, make it very profitable. Compact dwarf grower, enormous bearer. Fruit medium size, black, of excellent quality.

LAWTON—The favorite market variety; large, good quality, uniform, hangs long on vine when ripe, productive and profitable.

BLACKBERRIES—Vining

Price: Two year old: Each, 25c; 3 for 50c; doz., \$1.75; 50, \$6.00; 100, \$11.00; add postage.

HIMALAYA GIANT—A strong, rampant, trailing plant; very productive. Hardy, and thrives even under severe conditions. Fruit large, handsome and fine quality.

NEW MAMMOTH—No longer a novelty, but a proven success: the best family and market variety known. Strong grower of trailing habit, enormously productive; very early, fruit enormous, core soft and small, seeds small, flavor unsurpassed. Add postage.

DEWBERRIES

The best and most dependable of all dewberries. Large, jet black and fine flavor. Price each, 20c; 3 for 50c; doz., \$1.75; 50, \$6.00; 100, \$11.00; add postage.

LOGANBERRIES

The loganberry is larger than the blackberry, often an inch and a quarter long; color dark red

and produced in immense clusters. It partakes of the flavor of both the blackberry and raspberry.

Two year old, each, 25c; 3 for 50c; doz., \$1.75; add postage.

RASPBERRIES—Black

Two year transplants. Each, 20c; 3 for 50c; doz., \$1.75; 50, \$6.00; 100, \$11.00; add postage.

CUMBERLAND—A healthy, vigorous grower, throwing up stout, stocky well branched canes that produce immense crops of magnificent berries. Fruit very large, firm, keeps and ships as well as any of the blacks. The most profitable market variety. Mid-season.

GREGG—For many years the leading standard best known market sort. Very productive, large size, firm, meaty berries, covered with heavy bloom.

PLUM FARMER—A few days later than Kansas; maturing the entire crop in a very short period, making one of the most profitable market sorts. The berries are thick-meat and firm. Berry large and very attractive when picked.

RASPBERRIES—Red

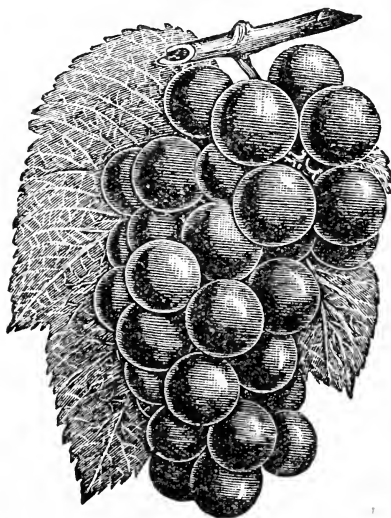
Each, 15c; doz., \$1.00; 50, \$3.75; 100, \$6.00; add postage.

CUTHBERT ("Queen of the Market")—Berries very large, conical, rich crimson, very handsome and so firm they can be shipped hundreds of miles by rail in good condition; flavor is sweet, rich and luscious. The leading market variety for main crop.

MARLBORO—Large size, light crimson color; good quality and firm. Vigorous, hardy and productive. The best well tested, large early berry for the north.

ST. REGIS (Everbearing)—A genuine practical, profitable, continuous-to-fall bearing red raspberry. Fruit commences to ripen with the earliest and continues on young canes until October. Berries bright crimson, large size, rich, sugary, with full raspberry flavor. Flesh firm and meaty, a good shipper. This variety: Each, 20c; doz., \$1.50; 50, \$4.50; 100, \$8.00; add postage.

GRAPES



Black

CONCORD—Very extensively planted. Bunch and berries medium size; black, fair quality, good keeper. Vine hardy, healthy and productive.

MOORE'S EARLY—Bunch large; fruit large; round, black, with heavy boom. Best early variety, hardy and productive.

WORDEN—An improved Concord, and next to it in popularity. Earlier, better quality and larger than Concord, equally hardy and healthy, but not as good a shipper. Best black grape for home use and nearby markets.

Green

MOORE'S DIAMOND—Bunches large; berry greenish white, flesh juicy; almost without pulp.

NIAGARA—Very hardy, strong grower; bunches large, compact. Berries large, round, light greenish white, semi-transparent. Skin tough, does not crack, quality good, melting and sweet.

Red

AGAWAM—Large berries, pulp soft and sweet, early.

CAMPBELL'S EARLY—This variety is recommended very highly on account of its earliness and other good qualities.

DELAWARE—Bunches small, compact; berries rather small, round, thin skin, light red; flesh juicy, sweet, good.

LARGE VARIETIES—Tokay, Muscat and Malaga.

	Year	Each	Doz.	25	50	100
Campbell's	.....	\$0.50	\$4.75	\$9.00	\$17.50	\$30.00
Concord	.....1	.20	1.75	3.50	5.50	10.00
Concord	.....2	.25	2.50	5.00	8.00	15.00
All other	.....1	.25	2.50	5.00	8.00	15.00
varieties	.....2	.35	3.50	7.00	12.50	22.50
Add postage.						

CURRENTS GOOSEBERRIES

Owing to an embargo we cannot ship currants or gooseberries.

APPLES Summer Varieties

Two and 3-year-old; Each, \$1.00; doz., \$10.00.

One year old, 5 feet; Each, 75c; doz., \$7.00.

One year old, 4 feet; Each, 50c; doz., \$5.50.

One year old, 3 feet; Each, 40c; doz., \$4.50.

Write for price on 50 and 100 lots.

EARLY HARVEST—Medium, pale yellow, tender, juicy.

YELLOW TRANSPARENT—Earliest and best; white, tender, juicy, sprightly, sub-acid. Grows rapidly, bears young and makes a profitable "filler."

RED JUNE—A brilliant red variety. Its distinct flavor has made it popular.

Fall Varieties

DUCHESS—Rather large; light red streaks on yellow ground; tender and juicy; very hardy. Handsome appearance and good cooking qualities are two points in favor of this variety. Early autumn.

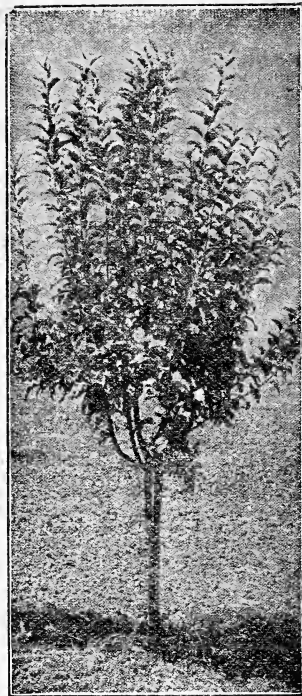
SNOW (Fameuse)—Medium size; bright red deepening to almost purplish black in highly colored specimens; flesh white, juicy, aromatic; heavy yielder. October.

Winter Varieties

BANANA—Large and showy; yellow, with pinkish red blush; flesh tender, heavy bearer.

DELICIOUS—This variety ranks very high either for commercial or home orchards. Large; brilliant dark red; flesh fine grained, crisp, juicy with a delightful aroma; splendid keeper and shipper, heavy bearer.

JONATHAN—Red and yellow, tender, juicy and rich. Very productive; one of the best for table and market. Extensively planted, doing well even on comparatively low lands.



RED MCINTOSH—Large deep crimson, highest quality, juicy, subacid. Good for both culinary use and dessert. One of the best red winter apples.

ROME BEAUTY—Dark red striped, large, excellent quality; a market favorite, bringing good prices. Tree hardy, regular bearer, late bloomer.

STAYMAN WINESAP—Medium size; yellow ground covered with red; flesh fine, crisp, and high-flavored; reliable and heavy cropper.

WAGENER—Medium to rather large; beautiful bright red; flesh firm, subacid, well-flavored; annually productive.

All apples same price. See quotations Summer Varieties.

APPLES—Crab

TRANSCENDENT—Largest of the crabs; striped red, showy, excellent and very handsome. Hardy and strong grower.

SIBERIAN, RED—Small, bright red, covered with light bloom; fine flavor, excellent for preserving. Ripens September.

SIBERIAN, YELLOW—Large, beautiful, golden yellow. September and October.

Same price as apples.

APRICOTS

One year, 3 to 4 feet; Each, 50c; doz., \$5.75.

One year, 4 to 5 feet; Each, 75c; doz., \$7.50.

Two and 3 year old; Each, \$1.00 to \$2.00.

MOORPARK—Very large; orange with reddish cheek; flesh orange, sweet, juicy, with fine flavor; very valuable. The best and most extensively planted apricot. Ripens early August.

ROYAL—Medium size, oval, sweet yellow, tree productive; excellent drying and canning variety. Ripens in July.

TILTON—Large, flesh firm, yellow, decidedly freestone. Tree vigorous, regular and heavy bearer.

PEACHES

Two-year-old. Each, \$1.00.
One-year-old, 4 to 5 feet: Each, 75c; doz., \$8.00.

One-year-old, 3 feet, 40c; doz., \$4.50.

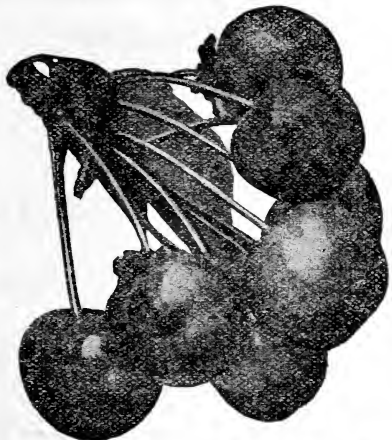
ALEXANDER—Medium, greenish white, nearly covered with rich red; melting, juicy, sweet. July.

CRAWFORDS EARLY—A magnificent, large yellow peach of excellent quality. Its size, beauty and productiveness make it one of the most popular varieties.

ELBERTA—The great market peach. Large, handsome; orange-yellow, nearly overspread with red, much mottled; flesh yellow, firm but tender, mildly subacid.

J. H. HALE—Recently introduced, recognized as one of the finest market peaches; large size, fine quality, red cheek, yellow meated freestone, ripening with Elberta but a better tree and more productive.

CHERRIES—Sour



Two and 3 year old selected. Each, \$1.00 to \$1.50.

One-year-old, 4 feet. Each, 75c.

One-year-old, 3 feet. Each, 60c.

EARLY RICHMOND—Medium, dark red, melting, juicy, sprightly, rich acid, best. June.

LATE DUKE—Large, light red, delicious fruits. Tree strong and upright, exceedingly productive. July.

MAY DUKE—Large, red, juicy, rich. June. Not so sour as some varieties, and very pleasant for sensitive teeth.

MONTMORENCY—Large, red, acid, exceedingly productive. Late June.

CHERRIES—Sweet

Two and 3-year old selected. Each, \$1.00 to \$3.00.

One year old, 5 feet: Each, \$1.00; doz., \$11.00.

One year old, 4 feet: Each, 75c; doz., \$8.00.

One year old, 3 feet: Each, 60c; doz., \$6.50.

BING—Very large; dark brown, almost black; flesh firm, rich and delicious. Immense size; good shipper.

LAMBERT—Large size and fine quality; deep, rich red, almost black; flesh firm and flavor unsurpassed. Best shipping variety; regular and heavy bearer. Ripens late July, two weeks after Royal Ann.

ROYAL ANN—One of the best known cherries. Very large, firm, rich red and white; good for table, canning and shipping, and the best of all the red varieties.

PEARS

Two and 3 year old. Each, \$1.00 to \$2.00.

One-year-old, 5 feet. Each, \$1.00; doz., \$10.00.

One-year-old, 4 feet. Each, 75c; doz., \$7.50.

One-year-old, 3 feet. Each, 50c; doz., \$5.75.

Write for prices on 50 and 100 lots.

BARTLETT—Large, buttery, juicy, high-flavored, great bearer. This sort has long been considered one of the choicest canning varieties, as well as a favorite for all other uses. August.

FLEMISH BEAUTY—Large, surface slightly rough; greenish yellow and brown; flesh juicy, melting, very rich and sweet; tree hardy, producing good crops annually.

SECKEL—Small, but handsome and delicious; yellowish russet with a red cheek; flesh whitish, buttery, very juicy and melting; tree makes somewhat slow but stout and erect growth. Probably the richest and highest-flavored pear known.

PLUMS

Two or 3 year old selected. Each, \$1.00 to \$2.00.

One year old, 5 feet, 75c.

One year old, 4 feet, 50c.

One year old, 3 feet, 40c.

BRADSHAW—Very large, oval; dark violet red; juicy, sweet and good. A valuable market variety. August-September.

DAMSON—Small, roundish oval; dark purple; favorite for preserves. September.

PEACH—Large, roundish; brownish red; coarse grained, but juicy, pleasant, sprightly flavor. Freestone. Ripens July. Ranks first in popularity.

PRUNES

Two and 3 year old. Each, \$1.00 to \$2.00.

One-year-old, 6 feet. Each, 75c; doz., \$7.75.

One-year-old, 4 feet. Each, 50c; doz., \$5.75.

One-year-old, 3 feet. Each, 40c; doz., \$4.50.

Write for price on 50 and 100 lots.

ITALIAN—Good size, purple, juicy, delicious, best for drying; separates freely from the stone.

FRENCH OR PETITE—The well-known California favorite for drying. Medium to small, egg-shaped; violet purple; juicy, very sweet, rich and sugary. Prolific, heavy bearer.

SUGAR, NEW—Fruit ripens 28 days before the French; is four times as large and dries in half the time; flesh tender and rich in sugar; color dark purple. Early, August.

QUINCES

Two-year-old, 3 to 4 feet: Each, \$1.00; doz., \$10.00.

CHAMPION—A prolific, constant and early bearer, oval fruit averaging larger than the Orange, quality equally fine, and a long keeper; ripens late.

ORANGE—Fruit large, bright yellow, of excellent flavor. October.

CONIFEROUS EVERGREENS

Arbor Vitae

AMERICAN—Native, known as cedar. Foliage bright green; yellow-green underneath; brown and bronze in winter. Each, \$1.00 to \$5.00.

ORIENTAL—Fine with close ascending branches of a fan-shaped appearance. Each, \$1.50.

PYRAMID ARBORVITAE—Bright green leaves above and dark glossy green leaves beneath. An excellent tree where pyramid forms are desired. Each, \$1.00 to \$5.00.

Cedar

RED CEDAR—Native with striking form and beautiful color. Each, \$2.50.



Hemlock

WESTERN—Very beautiful and appealing; branches pendant and foliage deep green. Each, \$2.00.

Juniper

COMMON—Branches spreading. Fine trees.
IRISH—Pyramidal in form, foliage silvery gray. Very striking.
Each, \$1.00 to \$5.00.

Spruce

COLORADO BLUE—This is one of the most popular of the spruces. Very showy and ornamental.

Each, \$2.00 and up.

NORWAY—A lofty, rapid grower; branches drooping. Fine for hedge or windbreak.

Each, \$1.00 and up.

Privit

ENGLISH PRIVIT—Our best plant for hedges. Plant in double row 2 feet apart, 6 inches between plants, and takes 2 plants to the foot. 15 to 18 in., 10 plants \$1.00, per 100 \$7.50; 18 to 30 in., 10 plants \$1.25; per 100 \$10.00.

GOLDEN PRIVIT—Beautiful variegated shrub used to plant in among evergreens. Gives wonderful effect. \$1.00 each.

DECIDUOUS ORNAMENTAL TREES

As ornamental subjects, trees take first place, as they are permanent, easy to cultivate and care for. In all landscaping, the trees are the most permanent and important element, furnishing masses of foliage.

Birch

EUROPEAN WHITE—Silvery white bark and slender drooping branches. Each, \$1.00 to \$2.50.

CUT LEAF WEEPING—A rapidly growing, graceful tree that is hardy everywhere. Bark and branches silvery white, forming a contrast with the delicate cut evergreen foliage. Its leaves seemingly are ever in motion. Beautiful and effective for all purposes.

Each, \$1.00, \$2.00, \$3.00, \$4.00, \$5.00.

Elm

CHINESE—A very rapid grower, adapted to semi-arid districts. Beautiful and graceful.

Each, 50c, 75c, \$1.00 and up.



Horse Chestnut

Horse Chestnut

WHITE FLOWERING—Foliage showy, flowers stand in upright panicles. Each \$1.50 to \$3.00.

Locust

BLACK—Rapid grower; fine for street planting. Each, 75c to \$2.00.

Maple

NORWAY—Large, growth compact; foliage deep green. Handsome. 6 to 8 feet, each \$1.50; 8 to 10 feet, \$2.50.

VARIEGATED BOX LEAF ELDER—The finest variegated tree of the hardy kinds, leaves almost pure white. Nothing finer for specimen planting, 4 to 6 ft. Each, \$3.00.

Mountain Ash

AMERICAN—Very ornamental, handsome foliage turning orange red in the fall. Red berries remain on the tree most of the winter.

Each, \$1.50; 8 to 10 feet, \$2.50.

Weeping Willow

WISCONSIN—Large glossy leaves and very pendulous habit. Each, 75c to \$1.50.

AMERICAN—The well-known common weeping willow. Each, \$1.50.

Add 10c for postage for the first root and 3c for each additional root. This will equalize postage, though in some cases this postage will be too much while in other instances it will be too little.

Fertilizers

Write for prices on all fertilizers, stating amount wanted, as prices may change.

Good fertilizer is as important as good seed and quality and quantity yields can only be secured when the ground is in a high state of the elements necessary to produce maximum results, and this soil condition can only be secured by the application of a dependable commercial fertilizer. For this reason the use of commercial fertilizer is increasing rapidly in the Northwest.

BONE MEAL STEAMED—You will notice this is referred to as Steamed Bone Meal, be-

cause it has been given a special treatment in order that the different elements may be the more readily converted into plant food. Used extensively for bulbs, flowers, roses, and green-houses.

Analysis: Nitrate, 1%; phosphoric acid, total 28%.

Ton	\$2.75 per 100 lbs.
Less than ton	2.87½ per 100 lbs.
Less than 1000 lbs.	3.00 per 100 lbs.
Less than 500 lbs.	\$3.25 per 100 lbs.
100 lbs.	\$3.50 per 100 lbs.
Less than 100 lbs.	5c lb.

GYP SUM



Agricultural gypsum (land plaster) is an untreated, ground, natural rock fertilizer, consisting mainly of hydrated calcium sulphate.

Gypsum furnishes sulphur in available form. For beans, peas and vetches it may be drilled in with the crop. The rate of application is 200 to 500 pounds to the acre.

In deciding whether to use gypsum or sulphur the relative cost is an important factor. Results have indicated that it requires about four times as much gypsum as sulphur to give equivalent increases in yield.

Ton	75c per 100 lbs.
Less than ton	80c per 100 lbs.
Less than half tons	90c per 100 lbs.
Less than 5 bags	95c per 100 lbs.
Bag lots	\$1.00 per 100 lbs.

MURIATE OF POTASH—The great importance of adding potash to some soils is well known. 50% Potash.

Ton	\$3.50 per 100 lbs.
Less than ton	\$3.62½ per 100 lbs.
Less than 1000 lbs.	\$3.75 per 100 lbs.
Less than 500 lbs.	\$4.00 per 100 lbs.
100 lbs.	\$4.50 per 100 lbs.
Less than 100 lbs.	6c per lb.
Less than 50 lbs.	7c per lb.
Less than 25 lbs.	8c per lb.

NITRATE OF SODA—Contains 13 per cent Nitrate, in quickly available form. It is used for forcing crops like lettuce, celery, etc., as it makes a large growth of leaves and tops.

Apply the Nitrate of Soda by broadcasting it evenly over the entire surface of the vegetable field you are fertilizing, at the rate of 250 pounds per acre, before seeding, or planting, or transplanting.

Ton	\$3.00 per 100 lbs.
Less than ton	\$3.12½ per 100 lbs.
Less than 1000 lbs.	\$3.25 per 100 lbs.
Less than 500 lbs.	\$3.50 per 100 lbs.
100 lbs.	\$4.00 per 100 lbs.

Less than 100 lbs.	6c per lb.
Less than 50 lbs.	7c per lb.
Less than 25 lbs.	8c per lb.

Bags weigh about 160 lbs. and are sold gross weight.



RED STEER—This mixture is especially prepared for gardeners and orchardists who want a reliable fertilizer and is highly recommended for potatoes and garden crops generally, as well as for berries and all sorts of fruit. Analysis: Nitrogen, 5%; Phosphoric Acid, 7%; Potash, 8%. Bags contain 125 lbs. each.

Ton	\$3.00 per 100 lbs.
Less than tons	\$3.12½ per 100 lbs.
Less than 1000 lbs.	\$3.25 per 100 lbs.
Less than 500 lbs.	\$3.50 per 100 lbs.
Bags of 125 lbs.	\$4.75 per bag
Less than bag	6c per lb.
Less than 50 lbs.	7c per lb.
Less than 25 lbs.	8c per lb.

SHEEP MANURE—Contains Nitrogen, Phosphoric Acid, Ammonia and Potash in liberal proportions. Produces immediate and lasting effect. Promotes steady and rapid growth.

It should be applied liberally, as it will not burn and the cost is low. Recommend 100 lbs. to 2,000 square feet. No objectionable odor.

Ton	\$1.25 per 100 lbs.
Less than ton	1.35 per 100 lbs.
Less than ½ ton	1.50 per 100 lbs.

SULPHUR

The following is taken from Bulletin 128, June, 1924, issued by Washington State College, Pullman, Washington:

Sulphur fertilizer can most profitably be applied to old seeding alfalfa in the spring.

Need for Sulphur. The amount of sulphur in various soils of the Palouse region varies from 250 to 975 pounds per acre of surface soil. The average amount of sulphur in cultivated soils is about 560 pounds.

Studies show that about five or six pounds of sulphur per acre are brought down by the average rainfall of 21 inches, while a two-ton crop of alfalfa removes about 12 pounds of sulphur per acre.

Ton	\$3.00 per 100 lbs.
Less than ton	\$3.12½ per 100 lbs.
Less than 1000 lbs.	\$3.25 per 100 lbs.

Price subject to change.

SUPERPHOSPHATE—This is a concentrated form of phosphoric acid. 17% phosphoric acid.

Ton	\$1.75 per 100 lbs.
Less than ton	1.87½ per 100 lbs.
Less than 1000 lbs.	2.00 per 100 lbs.
Less than 500 lbs.	2.25 per 100 lbs.
Bag, 125 lbs.	\$3.25 per bag
Less than bag	4c per lb.
Less than 50 lbs.	5c per lb.

Prices subject to change.

TANKAGE—This gives off very little odor and is highly recommended as a reliable fertilizer. Use about 500 lbs. to acre for row application and about 1,000 lbs. broadcast, 4½ nitrogen, 7 phosphoric acid.

Ton	\$2.50 per 100 lbs.
Less than ton	2.62½ per 100 lbs.
Less than 1000 lbs.	2.75 per 100 lbs.
Less than 500 lbs.	3.00 per 100 lbs.

Prices of all fertilizers subject to change.

Quotations on fertilizers are prices prevailing Dec. 1, 1931, but as these are liable to change our prices may advance or decline, therefore it

is better to write for prices stating amount wanted.

Please note that analysis on fertilizers may vary from figures here given as sometimes the different mixtures will vary somewhat, hence not guaranteed to be exactly correct.

VIGORO

Specially prepared plant food

For a better lawn, more beautiful flowers, and fine vegetables, you can rely on VIGORO.

You can enjoy these beauties of nature if you use good seed, plants, bulbs, and the right plant-food. The right plantfood is important because plants must be fed the same as human beings.

VIGORO is scientifically balanced and complete, and provides an economical, practical, and effective way to secure finest results. Economical because the cost is only 10c to 20c for every 100 square feet. Practical because it is clean, odorless, easy to apply—can be sown by hand like grass seed or applied with an ordinary kitchen colander. Effective because it contains all of the elements of plantfood necessary to grow richly colored flowers, velvety lawns, succulent vegetables, luxuriant shrubbery, and healthy trees.

100-lb. bag, \$6.00; 50-lb. bag, \$3.75; 25-lb. bag, \$2.00; 5-lb. pkg., 60c.

Complete directions in every bag.

Plants fed with STIM-U-PLANT will grow infinitely better; keeps your house plants healthy all year long. Odorless; clean. Simply insert tablets in soil. Complete directions in every package.

Box of 30 tablets 25c, postpaid 30c; 100 tablets 75c, postpaid 85c.

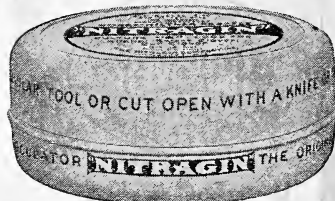


GROMORE

Nothing better for flowers and house plants. A tablespoonful to hill of potatoes, tomatoes or ordinary rose bush means abundant flowers, crisp and early vegetables.

A teaspoonful for 6 to 8 in. potted plant.

The small amount that it is necessary to use makes Gromore one of the most economical fertilizers. 2 lb. pkg., 25c; add postage.



INOCULATE Alfalfa, Clovers, Vetches, Peas and Beans with Nitragin

Nitragin is not a dry inoculant, but contains 30% to 40% moisture and will readily adhere to the seed without the addition of water and produce splendid results. For best results, both the Nitragin Company and agricultural authorities recommend the use of water when mixing legume culture with seed. Legume germs die rapidly when dried. Nitragin is fresh each year, as all unsold packages are destroyed each year by a factory representative. Each can is dated.

NITRAGIN PRICES, POSTPAID

ALFALFA AND CLOVERS	
½ bu. size inoculates 30 lbs. seed.....	\$0.60
1 bu. size inoculates.....	1.00
5 bu. size inoculates.....	4.75

PEAS, BEANS, VETCHES	
Garden size	\$0.25
1 bu. size inoculates 60 lbs.....	.60
1½ bu. size inoculates 100 lbs.....	.90
3½ bu. size inoculates 210 lbs.....	1.80
5 bu. size inoculates 300 lbs.....	2.50

When ordering specify particular seed you are going to inoculate.

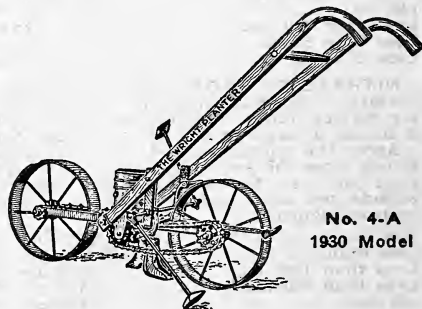
Seeders and Cultivators

Wright's Planter

The trenching point or furrow opener is pointed downward and opens a seed row in a hard or soft seed bed. The wide tire following wheel packs the planted row. The sprocket drive is positive to the driving gears, and the chain drive can be had from either the rear or front axle.

With the eleven plates furnished with each machine, they will operate to drill evenly, or hill plant seeds spaced every 45 inches, every 22½ inches, 15, 11½ or nine inches. Head lettuce or any variety of seed can be dropped as per this spacing, two or more seeds to the hill.

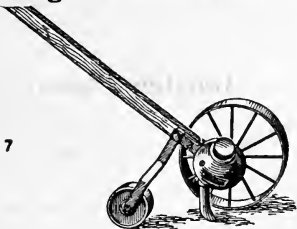
Price, \$26.00. Weight 40 lbs. Add postage.



No. 4-A
1930 Model

The Wright Wee Planter

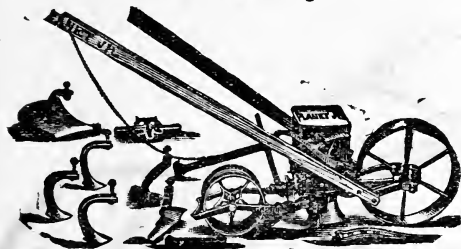
No. 7



So called by reason of its size, nine pounds weight and having only seven pieces of mechanism. This tool has been especially designed for greenhouse use and light gardening. It will dispense a fixed number of seeds per foot of any kind or size from beans to popples with close accuracy. The whole mechanical system of the machine is that it has a plate system.

Price, \$9.00. Weight, 11 lbs. Add postage.

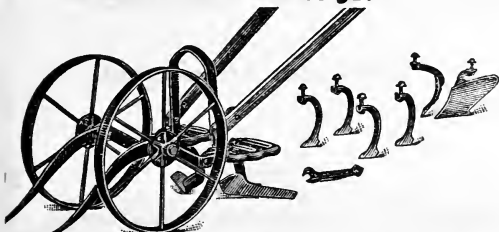
No. 4 Planet Jr.



This is the most popular combined tool made. It combines in a single implement a first-class, hill-dropping seeder, a single wheel hoe or weeder, a cultivator and a plow. The hopper holds two quarts of seed, which can be sown in continuous rows, or dropped in hills, at 4, 6, 8, 12 or 24 inches apart.

Price complete, \$18.00. Seeder only, \$14.25.

No. 12 Planet Jr.



No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Price, \$10.75.

PLANET JUNIOR'S EXTRAS.

Size—	Price	Weight
	Pair.	Pair.
Hoes, 6 inch.....	\$1.30	3 lbs.
Hoes, 7½ inch.....	1.50	3 lbs.
Hoes, 9 inch.....	1.65	3 lbs.
Rakes, 3 teeth.....	1.00	2 lbs.
Rakes, 5 teeth.....	1.60	2 lbs.
Rakes, 7 teeth.....	2.25	3 lbs.
Cultivator teeth, each.....	.35	1 lb.
Plows for double wheel hoes. Each.....	1.40	3 lbs.
Plows for single wheel hoes. Each.....	1.30	3 lbs.
Handles, per pair.....	1.00	3 lbs.

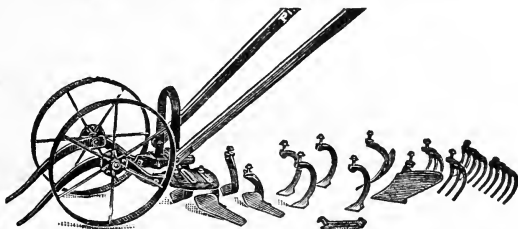
Add postage.

No. 19 Planet Jr.



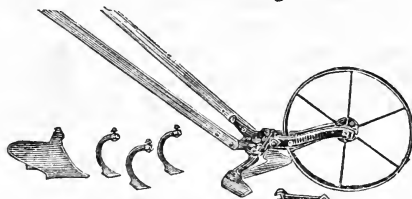
No. 19—This attractive implement is especially designed for the farmer's garden work. The great variety and fine shape and quality of the tools makes the implement light running and effective. It is strong, well made, and quickly adjusted. The height of the handles can be changed to suit. Price, \$6.00.

No 11 Double Wheel Hoe



No. 12 runs either astride or between the rows; kills all the weeds and leaves the earth in fine shape. Price, \$13.75.

No. 17 Planet Jr.

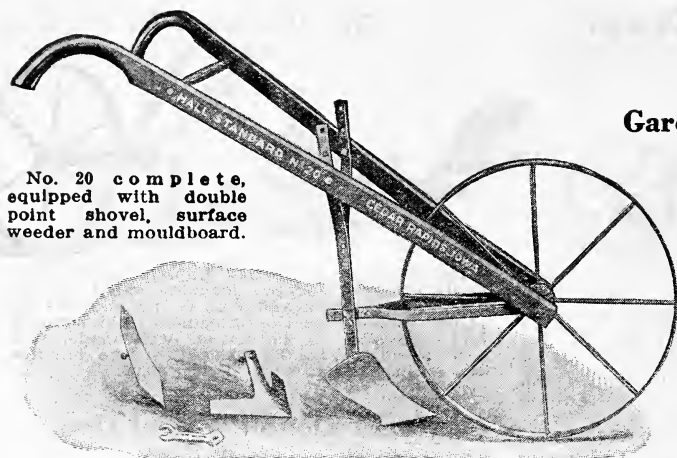


Wheel can be placed on outside of wheel arm to work both sides of the row at one time. With the plow, all the necessary plowing, opening and closing of furrows for seed, fertilizer, etc., and hilling of plants can be done. Price, \$7.75.

No. 25 Planet Jr.



As a drill it is almost identical with the Planet Jr. No. 4 Drill, and is thoroughly substantial and accurate in sowing all kinds of garden seeds in hills or drills. Price, \$21.50.



No. 20 complete, equipped with double point shovel, surface weeder and mouldboard.

Garden Plows

No. 20 Garden Plow is equipped with three tools, well sharpened and polished. Handles adjustable to proper working height. Extra heavy, 24-in. wheel and superior construction throughout makes this plow a rapid seller. Price, \$4.50.

NO. 25—Handles made of hollow pressed steel 1x2 inches. No wood to split, crack, or warp. 24-inch wheel, 1¼-in. tire. Hub 3¼ in. in width. Adjustable handles. By loosening one bolt handles can be raised or lowered. Three-hole adjustment permits changing the draft to suit different soils. While the accompanying cut shows only three attachments, the new style which we are offering has five attachments. Price, \$5.25.

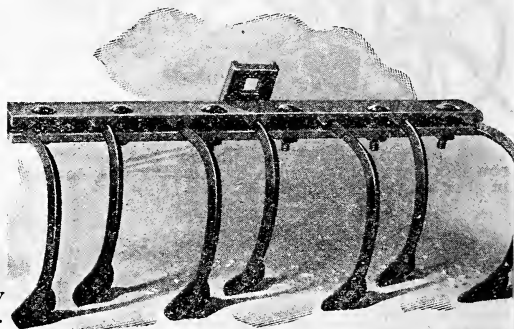


Cultivator Hoes



Two prongs are changeable for rows of any width. Loosening nuts, releases the prong. Works between rows or center prong can be removed and rows straddled. 4½-foot handle. 5-prong, price \$1.25, weight 5 lbs.; 3-prong, price, \$1.00, weight 4 lbs. Prongs only: 5 prongs, \$1.00; weight 4 lbs. 3 prongs, 75c; weight, 3 lbs. Add postage.

Cultivator Attachments



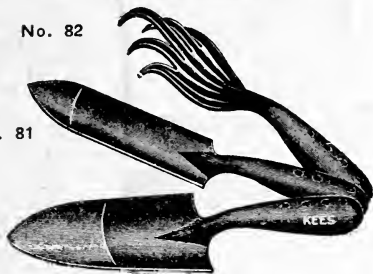
Prongs are made of best forged blades, and each prong can readily be removed. Attachable to any standard plow on the market. Permits a scope of cultivation impossible with stationary prong cultivators. Width 12 inches. Weight, 3 lbs. Price, \$1.25; add postage.

Garden Trowels

No. 82

No. 81

No. 80



NO. 80 — GARDEN TROWEL — One-piece heavy pressed steel. Blade and handle formed from a single piece of steel. Handle cannot come off nor break.

Blade $6\frac{1}{4}$ inches long, $3\frac{3}{4}$ inches wide, handle 5 inches long. Blade ground and polished. Handle perforated. Beautiful dark blue lacquer finish. Price, 20c; postpaid, 25c.

NO. 81 — TRANSPLANTING TROWEL — One-piece of heavy pressed steel. Blade $6\frac{1}{4}$ inches long by 1 $\frac{1}{2}$ inches wide. Otherwise like No. 80. Price, 20c; postpaid, 25c.

NO. 82 — GARDEN WEEDER — Has five corrugated fingers with ground and polished points. Round, perforated handle. Blue lacquer finish. Length, over all, $9\frac{1}{2}$ inches. Price, 20c; postpaid, 25c.

NO. 183 — GARDEN SET — Above three pieces. Price, 60c; postpaid, 70c.

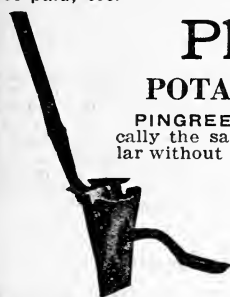


Five prong, corrugated handle. Price, 50c; postpaid, 60c.

Planters

POTATO PLANTER

PINGREE OR ACME — Is practically the same as the Acme Tubular without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. Weight 5 lbs.; price, \$1.25; add postage.



POTATO PLANTER

ACME SELF - LOCKING TUBULAR — The jaws are formed from bright steel dipped in a special preparation to prevent rust. The lock is secured by the front jaw slipping down $\frac{3}{4}$ of an inch, which causes a pair of studs on its upper corners to slip over corresponding shoulders in the rear jaw. When thrust into the soil to deposit the seed, the front jaw is pushed up, releasing the lock. Galvanized iron tapered conveying tube.

Weight 6 lbs.

Price, \$1.75; add postage.



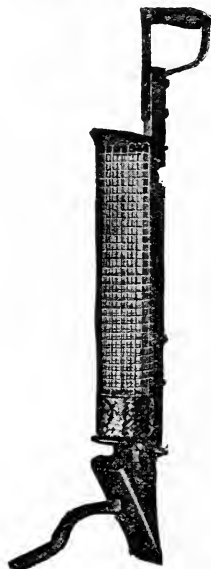
CORN PLANTER

ACME ROTARY AUTOMATIC — Pressed steel hopper. Hopper cup conveyor, depth gauge, dump, foot and cut-off box. Cast frame (or basket.) Disc or seed plates are adjustable by means of a thumb nut to suit various sizes of kernels. Used in one hand like a walking stick. Disc is set for correct number of kernels by loosening thumb nut, moving star until pockets are of right size, then tightening thumb nut again. Plunge planter into the ground, work forward to trip seed, and withdraw. Double coil spring automatically rotates disc and closes jaws, thus filling same for next hill. Wt., 6 lbs. Price, \$2.50; add postage.



POTATO PLANTER

ACME WIRE TUBULAR — Strong hardwood handle, set into malleable iron socket securely riveted to back jaw. Foot plates provided on socket. Adjustable dump or depth gauge. Wire mesh conveying tube by which each seed can be seen when passing through the tube. Weight, 6 lbs. Price, \$1.75; add postage.



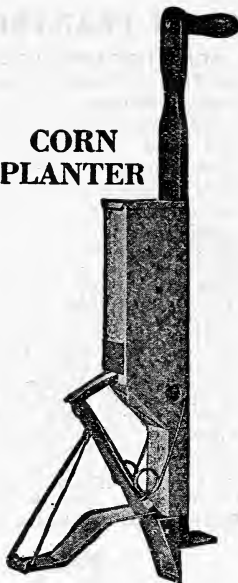
Master's Rapid Plant Setter

Each plant is SET, WATERED and COVERED in one operation without any stooping and no lame backs. A man simply walks along in an upright, comfortable position and will set from 8,000 to 15,000 plants per day and never have to bend his back. If does perfect work. The roots of each plant are put into the ground in a natural position and firmly set by the absorption of the water. Weight, 6 lbs. Price, \$6.00; add postage.



ACME SEGMENT—Automatic slide type. Segmental pressed steel slide, adjustable for number of kernels, running in segmental steel track. Chinese bristle brush cut-off. Double soil steel spring, adjustable depth gauge, fixed dump lever, galvanized hopper with hinged cover, galvanized seed spout. Can be used also for planting beans. Pumpkin seeds may also be planted by operator dropping seed into hole in spout. Weight, 5 lbs. Price, \$2.00, add postage.

CORN PLANTER

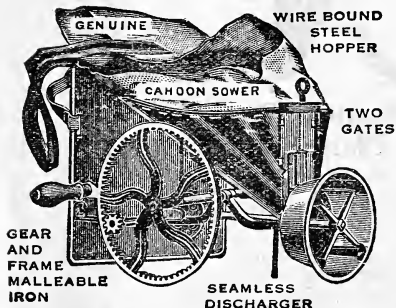


CORN PLANTERS

ACME OR TRIUMPH—The segmental slide is of pressed steel, adjustable to vary the drop. The jaws are of pressed steel securely riveted to hardwood sides, and the cover of hopper is also steel with hinges to fit over the top. The hopper, hopper bottom and conveyor tube are of pressed steel, thus making the planter complete, without a casting in its construction. Weight, 5 lbs.

Price, \$1.25; add postage.

GRASS SEEDER Genuine Cahoon



The Genuine Cahoon has malleable iron frame, top of hopper wire bound, bag 7-ounce duck, double gate, speeded so that step of operator at an ordinary gait corresponds to one complete turn of the handle. Secure the genuine original Cahoon Seeder as it is much superior to imitations. Price, \$5.00. Weight 8 lbs. Add postage.



IMPROVED CYCLONE

The improved "Cyclone" is the only Hand Seed Sower that is framed together with a slope feed board.

Automatic Feed Shut-off starts or stops flow of seed instantly.

The Improved "Cyclone" is guaranteed to sow perfectly all seed that can be sown broadcast, such as clover, timothy, millet, flax, wheat, oats, alfalfa, etc., etc. Weight, 5 lbs.

Price, \$2.50; add postage.

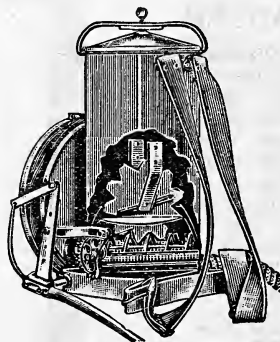
GRASS SEEDERS



WHEELBARROW—They run easily, and sow evenly in windy weather. The quantity of seed sown is accurately governed by the wheel, which moves correspondingly slow or fast as the machine runs over the ground. This seeder is constructed on up-to-date principles. It has a strong steel wheel, 32 inches in diameter, with an inch and a quarter by one-quarter inch steel tire. 14-foot spread. Price, \$15.00.

American Beauty

THE WORLD'S FINEST ONE-MAN DUSTER



When dusting is to be well done and a great deal depends on perfect protection from insect pests and disease, the supremacy of the American Beauty has never been questioned.

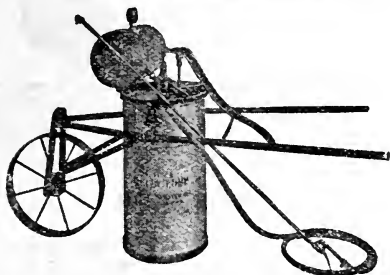
Its high quality, stability and perfect performance make it ideal for growers of valuable crops.

The gears and rocker arms on the American Beauty are pressed steel. There is no wear out to this American Beauty.

Price, \$18.00.
Weight, 18 lbs.
Add postage.

Pumps

UTILITY SPRAY OUTFITS



No. 40A

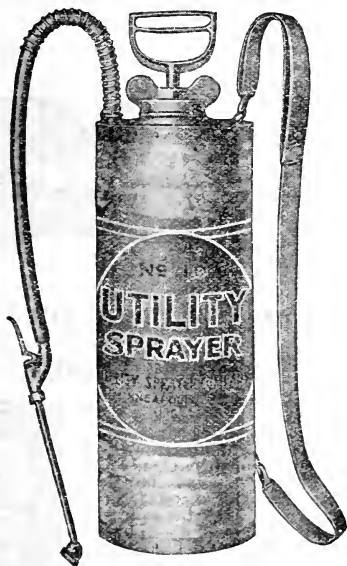
TANK is larger than most similar outfits, made of heavy galvanized iron, reinforced at top and bottom with heavy band iron rings. Capacity, 18 gallons.

PUMP—The cylinder is made of heavy brass tubing and has brass plungers packed with specially treated cotton wick to resist action of chemicals; can be tightened or expanded without removing from cylinder. Valves and all parts that come in contact with liquids are brass. Iron handle of good length makes pumping easy; 175 pounds pressure is easily maintained. Mechanical agitator keeps liquids thoroughly mixed. A fine strainer at suction end prevents sediment getting into working parts of pump. Price, \$40.00.

No. 40—Same in construction as No. 40A, but not equipped with an air pressure tank. 175-pound pressure is easily maintained.

Price, \$26.50.

Utility Compressed Air Sprayer



No. 10

Tank—Size, 7¼ by 20 inches; capacity, 3½ gallons. The convex flanged ends of 20-gauge material, the closely riveted and well soldered cylinder, double folded at top and bottom makes the tank very strong.

Pump—The plunger is fitted with a well-formed high-grade leather and operates easily in a heavy brass cylinder 1¾ inches by 15 inches long. The bronze ball check, seating on brass, will not deteriorate.

Hose—½-inch, 5-ply, 24 inches long, on standard hose connection with wire coil that prevents kinking, nozzle pipe and hose connection cemented into hose and fastened with brass ferrules.

Nozzle—Angle automatic, self-closing type; made of brass, equipped with strainer and two extra spray discs.

Galvanized tank, \$6.50; brass tank, \$9.00. Weight, 11 lbs. Add postage.



No. 20

Tank—Same size, material and construction as the tank used in No. 10 compressed air sprayer.

Pump—Placed in center of tank to prevent possibility of being damaged. The pump handle is non-breakable, as it is a continuation of the steel plunger rod, to which is fitted a well formed high grade leather, which operates easily in a heavy brass cylinder 1¾ inches in diameter by 15 inches long. The bronze ball check, seating on brass, will not deteriorate like rubber or leather when strong liquids or oils are used.

Hose—¾-inch, 5-ply, 24 inches long. Attached to tank with removable connection.

Nozzle—Straight Automatic, self-closing type, made of brass and equipped with strainer and two extra spray discs.

Galvanized tank, \$5.50. Weight, 9 lbs.; add postage.

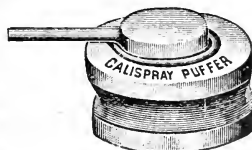
Calispray Puffer

Most powerful dust puffer built.

Made of metal with heavy bellows.

Ideal for applying Flea, Fly, Moth, or Insect powders. Easy to fill. Holds two ounces. Throws cloud four to six feet.

Price, 25c; post-paid, 30c.

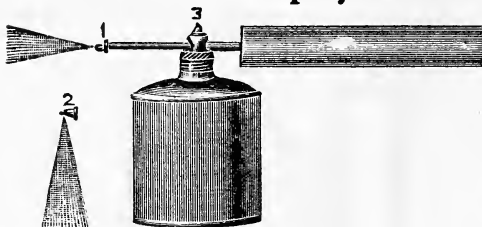


Spray Gun

With a spray gun an orchard can be sprayed in one-half the time required when using extension pipes, changing from the wide mist spray to long distance spray requires only a quarter turn of the handle grip. Length over all, 23 inches. Weight, 2½ lbs.

Price, \$7.00. Add postage.

Continuous Sprayers



THE INLAND

The Robertson Patent Pump enables the manufacturer to make a better sprayer than it is possible for any other manufacturer to make without infringing on this patent.

These sprayers have a universal Nozzle that sprays up and down and to either side, in addition to the direct spray nozzle.

Price, tin, \$1.00; brass, \$1.50. Weight 2 lbs. Add postage.

Household Sprayer



This sprayer is particularly designed for household uses and handles fly oils, moth preventives and all household disinfectants. Price, 15c. Weight ¾ lb. Add postage.

Trombone Sprayer

The Trombone Sprayer is double acting and continuous, maintaining a steady discharge without undue exertion on the part of the operator. All parts are brass, with bronze ball valves, easily accessible for cleaning, etc. Fitted with 3 feet of ¾-inch spray hose, intake pipe and strainer, weighted so as to remain in barrel or pail when being used. Fog nozzle with reversible discs for various jobs. Can be used with extension if desired, for reaching under sides of plants, etc.

	Price	Weight
Trombone Jr.	\$3.50	4 lbs.
Trombone Sr.	\$4.50	6 lbs.

Add postage.

Inland Special Sprayer



Inland Special Sprayer is a Single Tube Tin Sprayer. The pump cylinder measures 14½ inches in length by 1¾ inches in diameter. Weight, 2 lbs. Price, 50c. Add postage.

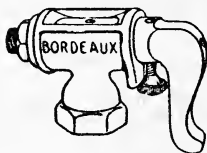
Baby Midget Sprayer



A small size single tube Tin Sprayer for household use. Strong and substantial and possessing every feature of the larger types.

Capacity, about ½ pint. Price, 35c. Weight, 1 lb. Add postage.

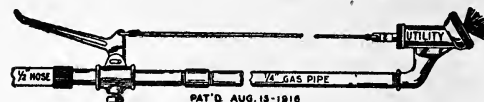
NOZZLES



BORDEAUX — The handle is built close down to the body and is shaped so as to avoid catching in the branches. The corners of the slot are cut away, leaving plain

straight faces which form a clean-cut spray without ragged edges. Price \$1.25; postpaid \$1.30.

CLIPPER (Patented)—The spraying lips are so shaped that all parts of the spray travel the same distance from the lip. It throws either a fan-shaped spray, a long-distance spray or a solid stream. Especially adapted for white-washing. Price, \$1.25; postpaid, \$1.30.



With our patent feature the shut-off is always at discharge and regardless of what length of pole is used. This eliminates use of stop-cock. Nozzle seats are brass, not rubber. Price, each, \$2.00; postpaid, \$2.05.

VERMOREL—This nozzle throws a beautiful, misty, circular spray. All trouble caused by clogging in the bend is avoided by having the stem detachable. This also shows the nozzle to be turned sired. Price, \$1.00; postpaid, \$1.05.



SPRAY MATERIALS

All Round Spray

All Round Spray will sweep away your insect troubles. A Triple service product composed of the popular remedies for the three major classifications of pests. Effective, yet hardly more than the price of one.

Nicotine Sulphate—to control sucking insects such as aphids (plant lice), thrip and leaf hopper.

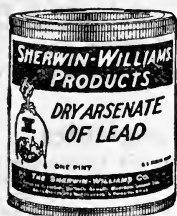
Arsenate of Lead—to destroy the chewing insects, slugs, beetles, caterpillars, worms.

Bordeaux Mixture—to prevent blight and fungous diseases.

¼ lb., 40c; 1 lb., \$1.00. Not mailable.



Arsenate of Lead



Owing to unsettled conditions the quotations made on spray materials are not guaranteed. Write for price, stating size and quantity wanted.

Not mailable.

Dry Powder Arsenate of Lead may be mixed with water and applied as a liquid spray or it may be used as a dust spray. If applied as a liquid spray it is usually used 1 pound to 1½ pounds to 50 gallons of water. For potato beetles and other insects that are hard to kill use two to three pounds to 50 gallons of water.

½ lb.\$0.20 4-lb. pkg.\$0.75
1 lb.35 Case, 48 lbs. 9.00

ATLACIDE NON-POISONOUS

Atlacide Non Poisonous Weed Killer Duster exterminates all undesirable vegetation including Poison Ivy, Canada Thistle, Johnson Grass, etc., without danger of poisoning humans or animals. Simply shake powder from can on the weeds and grasses to be killed.

100-lb. Drum kills 10,000 sq. feet of weeds.

Ask for prices.



Spray
"Black Leaf 40"
40% Nicotine
Kills Aphis 40"

Against sucking insects, such as Green and Woolly Aphis, Pear Psylla, Grape Leaf Hopper, Pear Thrips, etc., 1 part "Black Leaf 40" to about 900 to 1,000 parts water.

Against more resistant plant lice, such as Black Aphis and Rosy Apple Aphis, 1 part "Black Leaf 40" to about 500 to 700 parts water.

The addition of one or two pounds of any good soap, or of Whale Oil soap, to each 50 gallons of water is often very advantageous. When using dissolve the soap in the water before adding "Black Leaf 40".

1-oz. bottles\$0.35 2 lbs.\$3.75
5-oz. bottle 1.00 5 lbs. 7.00
1-lb. bottle 2.50 10 lbs.11.85
5-oz. bottle 1.00

Not mailable.

BORDEAUX MIXTURE

It stays in suspension well, adheres to the foliage and can be used in combination with Paris Green, Arsenate of Lead or other insecticides with an extraordinary degree of safety.

1 lb., 35c; 4 lbs., 75c.



DRY LIME SULPHUR

Containing Other Compounds

Not Mailable

1 lb.\$0.30
5 lbs. 1.20
10 lbs. 2.10
25 lbs.\$3.00
50 lbs. 5.75
100 lbs.11.25

Directions: From ten to twelve pounds of Dry Lime Sulphur dissolved in fifty gallons of water should be used as dormant spray against scale, insects, etc. From two to three pounds to fifty gallons of water in combination with the usual proportion of Dry Arsenate of Lead should be used for summer spraying on all seed fruits, such as apples, pears, quinces, etc. From one to one and one-half pounds to fifty gallons of water in combination with the usual strength of Arsenate of Lead should be used for summer spraying of peaches, plums and all stone fruits.

MGK EVER GREEN NON-POISONOUS INSECTICIDE

Pets, poultry, livestock and birds are safe. Garden produce such as lettuce, celery, greens, cucumbers, etc., can be eaten uncooked without the slightest danger.

TWO TYPES OF INSECTS

There are two types of insects—chewing, which eat the leaves and blossoms; sucking, which suck the sap from leaves or stems.

EVER GREEN kills both chewing and sucking insects. The sucking insects must be killed by "contact." Chewing insects can be killed by spraying insecticides on the leaves that they feed on.

ADVANTAGES OF USING EVER GREEN

Non-poisonous. Non-injurious to plants, blossoms or foliage. Kills chewing and sucking insects.



1-oz. bottle\$0.35
6-oz. bottle 1.00
16-oz. bottle 2.00
32-oz. can 3.50
Gallon can11.50

Postpaid

\$0.45

2.10

3.75

12.00

Safe delivery not guaranteed on glassware and liquids.

Hammond's Slug-Shot



For destroying slugs, cabbage and turnip flea, currant worms, etc. Lb. pkg., 30c; 5-lb. pkg., \$1.00; add postage.

Hammond's Grape Dust

To prevent mildew on roses, grapes and goose berries. Lb. pkg., 35c; 5 lb. pkg., \$1.25; add postage.

VOLCK

"Garden Volck" is a Volck-Nicotine combination spray that offers the home gardener as nearly complete a garden spray as can be put in one package. It is used to control Aphids, Thrips, Scale, Mealy Bug, Red Spider, White Fly, Lace Wing Bug, Cyclamen Mite, Greenhouse Orthesia, Leaf Miner, Squash Bug, Leaf Hopper, Small Caterpillars, Leaf Spot, Mildew, Rusts, etc.

3 oz., 40c; pint, \$1.00. Gallon, \$5.00.



"Nursery Volck" is the high quality Mineral Oil Spray for general Nursery and Garden use. It is safe and effective. It is not to be confused with "Garden Volck" which contains Soap and Nicotine, but is recommended for the same pests as Garden Volck with the exception of Aphids, Thrips, Small Worms and Bugs. 1/2 pint, 40c;

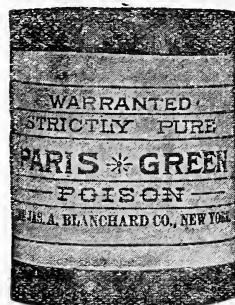
pint, 60c; quart, 90c; gallon, \$2.25.

"Greenhouse Volck" is a special "Volck" for use on tender plants under lath or glass. It is exceptionally safe to tender foliage. Unusually effective against Mealy Bug. Also controls Scale, White Fly, Red Spider, etc.

Quart, 90c; gallon, \$2.25.

Whale Oil Soap

A full strength liquid whale oil soap. Soluble in hard or soft water. Pint, 40c; quart, 70c; gallon, \$2.00.



Paris Green

Poor Paris Green is dear at any price. Effective against all chewing insects.

Price, 1/4s, 20c; 1s, 60c; 4 lbs., \$2.00.

Prices not guaranteed. Not mailable.

Spreaders

What is known as a Spreader has been highly recommended the last few years to be used in connection with spraying, as it increases the adhesiveness of the spray and tends to give a more uniform coating, thus completely covering the surface.

Price, lb., 30c; add postage.

Tobacco Dust

For green and black aphids, fleas, beetles.

1 lb.\$0.15 50 lbs.\$4.25
10 lbs.1.25 100 lbs.7.50
25 lbs.2.50 Add postage.

All quotations on spraying material subject to change. If you want a quantity write for prices.

Respirators

For comfortable protection at dusty work, such as handling dry chemicals, dry colors, facing, plaster, fertilizer, metallic powders, soap powders, and other dusty material.

Price, \$1.75; postpaid, \$1.85.

Filters, or sieves for respirators, lot of 100, \$1.25.

Insecticides, Fungicides

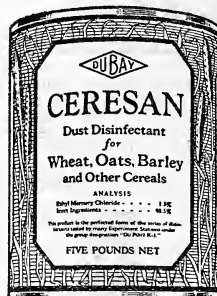
As the use of insecticides and fungicides are beyond our knowledge and control and involving elements of risk to vegetation, we do not make any warranty, expressed or implied, as to the effect of such use whether or not used in accordance with directions or claims so to be.

Write for prices, stating size wanted, as following quotations are not guaranteed.

Bluestone

Used successfully in winter sprays, also used largely for the treatment of wheat to prevent smut. Lb., 20c, postpaid—use one pound to 5 gallons of water. If wanted in 100-lb. or barrel lots, market price.

Ceresan



Ceresan is much easier to apply than the old liquid treatments and has no injurious effect on the seed.

Barley—Stripe and covered smut are usually eliminated by the use of this simple dust treatment. Ceresan is the first satisfactory dust disinfectant available for the control of these barley diseases.

Oats—Excellent control of loose and covered smuts may generally be obtained by seed treatment with Ceresan.

Wheat—Ceresan is very effective in the control of bunt or stinking smut and is recommended for the control of seed-borne flag smut.

Ceresan is economical to use. For wheat and rye, only 2 ounces of Ceresan are required for each bushel of seed. For oats and barley only 3 ounces of Ceresan per bushel of seed are needed.

1-lb. tin	\$.75	100-lb. drum	\$49.00
5-lb. tin	3.00	300-lb. drum	144.00
25-lb. tin	12.50	Not mailable.	

Copper Carbonate 54-55%

Copper Carbonate possesses every requisite physical and chemical quality to insure maximum results. 99% will pass through a 200-mesh sieve, and in addition to being so light fine and fluffy, has exceptional adhesive and covering properties. By analysis it shows:

Copper	54-55%
Equivalent to Basic Copper Carbonate	97-98%
Inert	2-2%

Two ounces per bushel is sufficient to insure full coverage, though no harm will result if more is used. It causes no injury to germination.

Avoid inhaling the Copper Carbonate dust. The treated grain should not be fed to chickens or livestock.

5-lb. pkg.	\$1.50	200-lb. barrel	\$50.00
10-lb. pkg.	2.85	Not mailable.	

COPPER CARBONATE 18%

5-lb. package, \$1.00. Not mailable. Quotations not guaranteed. Ask for prices stating amount wanted.



Directions

BARLEY—Put one pint in 40 gallons of water, dip barley in loose gunny sacks, soak for two hours; spread out and dry after draining.

OATS—Use one pint in 10 pints of water. This quantity, 11 pints, will treat 55 bushels.

POTATOES—Use one pint to 15 gallons of water. Heat solution 118 degrees to 122 degrees Fahr. in tank with heater. Dip uncut potatoes for two minutes either in sacks or crates, then cover with canvas for an hour.

WHEAT—Put one pint in 40 gallons of water and follow directions given for barley.

Price: Pints, 60c; quarts, \$1.00; gallon, \$3.50; 5-gallon can, \$16.50. Pints and quarts packed in glass. Gallons in glass or jugs. Packed carefully but safe delivery not guaranteed. Not mailable.

Semesan



Semesan Disinfectants have revolutionized seed disease treatment and represent the most remarkable advancement of the century in scientific agriculture.

This modern disinfectant comes in dust form and can be applied to control a most diversified variety of parasitic diseases and fungoid growths borne by seeds, plants, grafts and soil. Semesan is harmless to seed and

plant life but extremely poisonous to disease and fungous organisms.

For most flower and vegetable seeds use one ounce of Semesan to each 15 pounds, but to dust field crops use two ounces per bushel for the large varieties of seeds or three ounces for the small kinds.

2-oz. tin	\$0.50	1-lb. tin	\$ 2.75
8-oz. tin	1.60	5-lb. tin	13.00

Not mailable.

SEMESAN BEL—Can be applied in a few minutes to whole or cut seed potatoes, either as a dry powder or a whitewash-like water mixture.

Dry seed potatoes may be most conveniently disinfected before cutting by gently rolling them and the Semesan dust together in a barrel or other cylindrical container for three to five minutes or until the tubers are thoroughly coated.

4-oz. tins	\$0.50	25-lb. pail	\$ 31.25
1-lb. tins	1.75	100-lb. drum	120.00
5-lb. tin	8.00		Not mailable.

SEMESAN JR.—Is a dust disinfectant used for the ear, root and stalk roots of field and sweet corn. By dusting seed corn with Semesan Jr., these diseases are controlled and yield increases are made possible.

It is used at the rate of 3 ounces per bushel of seed. The cost therefore ranges from only about 4c an acre of field corn to 6c or 7c per acre of sweet corn.

4-oz. tin	\$0.50	5-lb. tin	\$8.00
1-lb. tin	1.75		Not mailable.

Ant Destroyer

Antrol



For sweet eating ants—the kind that infest the house and are frequently seen on plants and trees. This is a complete system adapted to any size house, composed of small glass containers and special Antrol syrup. The containers are partially filled with syrup and then placed about the outside edges of the house. Ants smell the mildly poisonous syrup, eat it and then transmit it to their queen. Soon the entire ant nest is destroyed.

Prices—Antrol sets containing 4 containers and 1 4-oz. bottle of syrup, 85c. Weight, 2 lbs. Add postage.

Antrol syrup, 4-oz. bottles, 35c; postage paid, 45c.

Antrol syrup, pint bottles, 75c; postage paid, 85c.

Antrol empty bottles, each, 15c. Postpaid, 20c.

Ant and Roach Powder

This fast-killing Ant and Roach Powder is manufactured by The Antrol Laboratories. It is put up in attractive, handy, shaker twist top 2½-ounce cans, and has proved to be very effective. Each, 15c; postpaid, 20c.

Cutworm Killer



Snarol

SNAROL quickly kills garden pests such as cutworms, sowbugs, grasshoppers, slugs, snails, earwigs, etc.

SNAROL is a ready-prepared meal that you simply broadcast on the ground under the vegetation. The pests eat the meal in preference to plants, and are quickly destroyed.

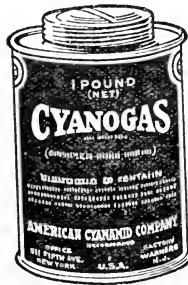
SNAROL will not deteriorate from rain or sprinkling, and also is non-injurious to vegetation when used according to simple directions.

1½ lb. package	\$0.35
4 lb. package .....	.75
15 lb. package	2.50

Add postage.

RODENT DESTROYERS

Cyanogas



Prices not guaranteed on any rodent destroyer.

Kills by giving off gas on exposure to the moisture in the air. This characteristic makes it easy to apply.

The residue after the gas has escaped is largely ordinary slaked lime, which is harmless to stock.

CYANOGAS—For controlling Ants, Rats, Moles, Fleas, Gophers, Sage Rats, Prairie Dogs, Ground Squirrels, Wire-grape Leaf Hopper.

worms, Snails, Slugs,

Granular—1 lb., 75c; 5 lbs., \$2.00; 25 lbs., \$6.00; 100 lbs., \$20.00.

A-Dust—1 lb., 75c; 5 lbs., \$2.50; 25 lbs., \$6.00; 100 lbs., \$20.00.



Kill Rats Without Poison with K-R-O

**Won't Kill Livestock, Poultry,
Dogs, Cats or even Baby Chicks.**

Owing to the fact that K-R-O is harmless to human beings and animals it can be forwarded by mail. Price, 75c; postpaid, 85c.



MOUSE SEED

(HOUSEHOLD USE ONLY)

Kills Mice!

Mouse Seed can be used without bait, without traps, without muzz. Mouse Seed is real seed—that kills mice. It attracts them wherever it is left.

Pour a pile of seeds out of the package on a saucer. The mice, attracted by the flavor, will gnaw the kernels, leaving the husks.

Oz. packages, 25c; lb. packages, \$2.00. Postpaid, 30c and \$2.10.



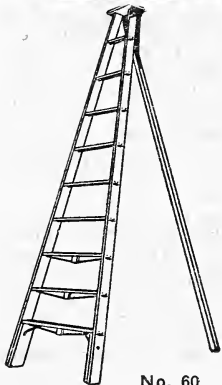
Woodlark Squirrel Poison

Requires no mixing preparation—always ready for use. When you buy demand the best. Get the "Woodlark" brand. Lb., 45c; 10 lbs., \$4.00. Nutt. not available.

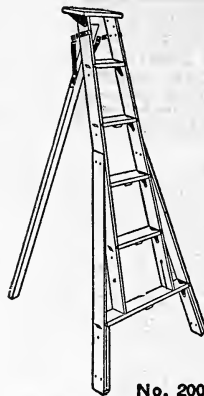
FRUITLADDERS

The Northwest is the old standby for fruit pickers because it is light and stands solid. No side swaying. The construction is so it braces each way from the heavy steel head block to the bottom braces, riveted to the sides and bottom steps. Brace rods under each step, with long washers. The third leg is all riveted to top, sides and head board. No bolts or nails to work loose.

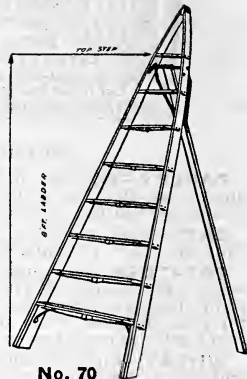
Clear spruce, which is light and strong, in each ladder.



No. 60



No. 200



No. 70

No. 60—6 and 8 feet as per cut; 10 and 12 feet, same ladder with side extensions. 55c per foot.

No. 200—10 and 12 feet, as shown in cut; 6 and 8 feet, same ladder without side extensions. Price, 65c per foot; 14 foot, 70c per foot.

No. 70—8, 10 and 12 feet. 70c per foot.

CLOVER LEAF FRUIT PICKING BAG

The Clover Leaf Picking Bag is constructed of heavy canvas with a spring steel frame at top. The lower end of the bag folds squarely back to the steel frame at the top. The lower portion of the sack being held securely by means of an ingenious fastener. To empty bag release the string and deposit fruit in box.

Price, \$1.75. Weight, 3 lbs. Add postage. Price subject to change.

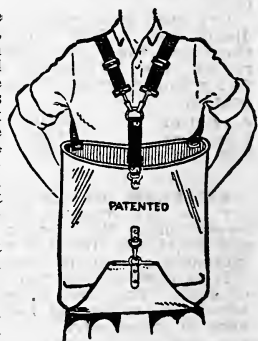


INLAND FRUIT PICKING BAG

The mouth of the bag is always open, being constructed with a novel shaped metal frame so that the hands of the pickers can go with the fruit to the bottom of the bag. Bottom of the bag is opened instantly by the snap and fruit is emptied out without bruise or injury.

When snapped at top loop the bag will hold one-half bushel; when snapped at bottom loop as shown in cut the bag will hold about a bushel.

Price, \$2.00. Weight, 3 lbs. Add postage.



Nail Strippers



Self feeding. No time lost in keeping full. Adjustable. Handles all size nails from 2 d. to 10 d.

Smith's (cut). Price, \$10.00. Weight, 8 lbs. Add postage.

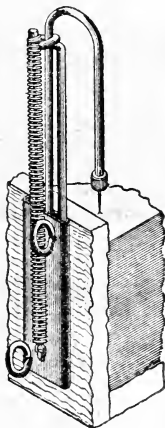
LID PRESS

Special features of the Edgemont Lid Press: The stripper nail box delivering the nails all pointed down; the placing of the lids in position endwise by the clamping yoke; the spring attachment holding the cleat in place, all tend to make nailing easy, quick and simple.

Price, \$20.00. Price subject to change.

Paper Holder

A model of simplicity, handiness and usefulness. Saves paper and increases the speed of the user. An all-purpose holder and a necessity for every fruit packer. Holds from one to 1600 wraps. Neat, rust-proof and lasting. Folds up and can be carried in pocket. Price, \$1.00.



PRUNERS



CRONK'S EXTRA HEAVY—Forged from high grade tool steel and finely tempered, wrought steel ferrule polished. Has the Cronk patent locknut and can not work loose and ruin the shears. Riveted handle.

No. 226—26 inches, weight 3 lbs. Price, \$2.50.
No. 230—30 inches, weight 4 lbs. Price, \$2.75.

PRUNERS

Bastian Pruner

The powerful lever of the Bastian Pruner enables one to do the same work in half the time and with half the labor that would be required with old-style Pruner.

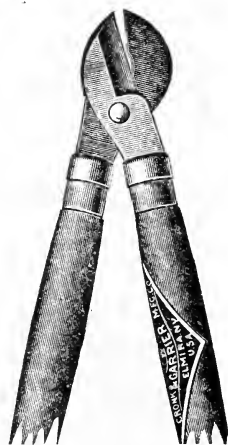
Blades are of finished Damascus steel, very strong, and hold their cutting edge. Simple in construction, light, strong and durable.

Feet	Price
6	\$2.00
8	2.25
10	2.50
12	2.85
Handle slides	.35c
Blades	.35c
Blade Screws	.15c
Poles for 8 foot	1.00
Poles for 10 foot	1.15
Poles for 12 foot	1.25



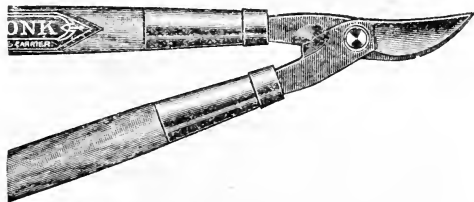
Bastian

Cronk's Pruners



No. 9 1/2.

Steel ferrule. Notched hook (patented), prevents slipping, gives greater leverage, and makes cutting easier. No. 9 1/2, 26 inches. Weight, 3 lbs. Price, \$1.65; add postage.

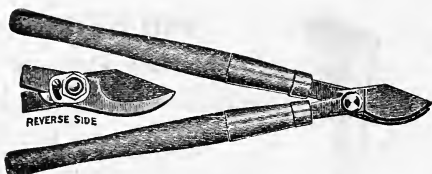


Blades and hooks forged from special selected quality tool steel and tempered. Handles natural finish with 4-inch steel ferrule and cap finished in black enamel.

No. 326—26 inches; weight 3 lbs. Price, \$2.75.

No. 330—30 inches; weight 4 lbs. Price, \$2.85. Add postage.

Pruner handles with ferrule, 20-inch, 50c; 24-inch, 55c; 30-inch, 60c each; weight 3 lbs. Add postage.

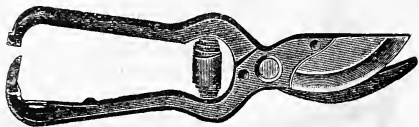


FRESNO PATTERN — Forged from high grade tool steel, finely tempered. Solid wrought steel ferrule. Has lock nut and can not work loose and ruin the shears. Riveted handle. Strictly high grade and has no equal.

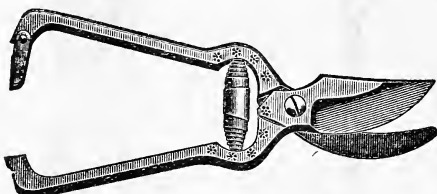
No. 126—26 inches, weight 3 lbs. Price, \$2.35.

No. 130—30 inches, weight 4 lbs. Price, \$2.50. Add postage.

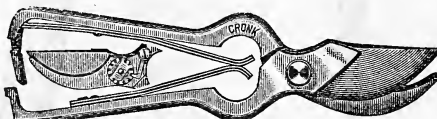
HAND PRUNERS



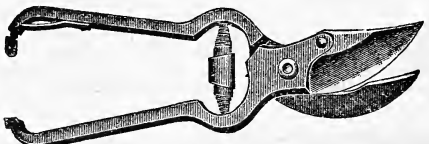
No. 17—Length, 9 inches. Detachable polished tempered steel blade. Price, 80c; postpaid, 90c.



250—Forged from best cutlery steel. Nickel plated, 7 inches. Price, \$1.50; postpaid, \$1.60. Known as Rose or Ladies' Pruners.



600—Forged from best cutlery steel, full polished, 8½ inches. Price, \$2.25; postpaid, \$2.35.



27—Length, 9 inches. Detachable blade of cutlery steel. Notched hook, forged from tool steel, full polished and tempered. Price, \$2.00; postpaid, \$2.10.

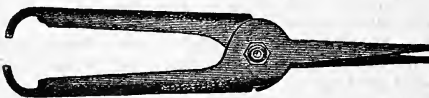
Springs

Volute springs for hand pruners. Each, 15c.

Volute springs for No. 203. Each, 15c.

Springs for No. 101. Each, 15c.

Grape or Thinning Shears



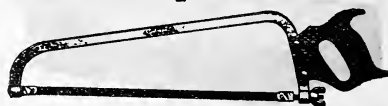
101—Length, 6¼ inches. Made extra heavy. Price, 50c; postpaid, 55c.



203—Same as 101, but longer and has volute spring. Price, 60c; postpaid, 65c.

Saws

No. 10. Tapered Pruner



The frame is made of extra high quality spring steel, ¾ of an inch wide and ¼-in. thick. The blade is extra high quality Pruning Saw steel, 13½ inches long. The handle is ATKINS new easy grip pattern and is in popular favor wherever used. It is made of beechwood thoroughly seasoned, highly finished and polished on the edges, fastened to the frame by two brass screws. The blade is adjustable so that the saw will cut at any angle. Length of saw frame, 16 inches. Price, \$2.50; postpaid, \$2.60. Extra blades, 40c; postpaid, 50c.

No. 1. Atkins Table and Pruning Saw



The blade tapers from 2½ inches to 1 inch, and is made of genuine Silver Steel. The finest steel that has ever been used in saw blades. The handle is of hardwood, finely finished, polished edge. Blade is 14 inches long.

Price, \$1.90; postpaid, \$2.00.



NO. 4

The blade is heavy-gauge and is of Atkins High-Grade Special Steel, tempered very tough and hard, but not brittle. The handle is of thoroughly seasoned hardwood, handsomely carved, varnished and polished; fastened to the blade by three brass screws and a medallion. Blade 20 inches. Price, \$2.00; postpaid, \$2.10.

No. 18 Folding



This is similar to the No. 13, except it is supplied with a folding handle, enabling the user to turn the tooth edge down for the purpose of putting in pocket. Made of silver steel, highly polished. Peg teeth pitched back so as to be right angle at cutting edge. Blade 14 inches long. Plain sanded beech handle. Nickel screw.

Price, \$1.50; postpaid, \$1.60.

No. 13. California Pruner



The blade is of the finest quality Silver Steel which is superior to any other sawsteel. The curved blade makes cutting easy. The handle is of highly finished applewood. Blade is 14 inches long. Price, \$1.40; postpaid, \$1.50.

Grafting Wax

One-fourth lb., 20c; postpaid, 25c; ½ lb., 30c; postpaid, 35c; 1 lb., 50c; postpaid, 60c.

Raffia

Natural color, for nursery work. Price, ¼ lb., 15c; ½ lb., 25c; 1 lb., 40c; postpaid.

Tree Tanglefoot

To protect trees against climbing insect pests in a simple, economical and effective way, use Tree Tanglefoot—a sticky substance applied directly to the bark of trees. One application remains sticky three to four months fully exposed to the weather. Easily applied with a wooden paddle. One pound makes a band 8 to 9 feet long. No mixing, always ready for use.

Net Wt.	Gross Wt.	Price
1 lb.	1¼ lbs.	\$0.60
5 lbs.	5½ lbs.	2.50

Add postage.

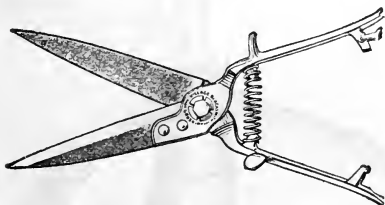
For use on trees, shrubbery, etc., to stop bleeding of sap after pruning, and prevent worm-boring. Used extensively by large nurseries and fruit growers.

Directions: Best results are obtained by applying Pruning Compound at the time pruning is done.

Quarts, 75c; gallon, \$2.50. Not mailable.



Grasnip



NO. 1 GRASNIP—A practical all-round shear, for grass, vines, light shrubbery, etc., 6-inch cutlery steel blades; malleable red enameled hand grip. 12 inches over all. Price, \$1.10. Weight, 2 lbs. Add postage.

NO. 2 GRASNIP—Green enameled hand grip, semi-finish blades. Price, 90c; weight, 2 lbs. Add postage.

Labels



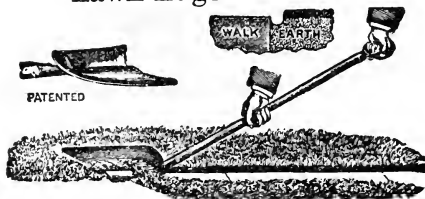
	Size	100	500	1000	Weight Per 1000
Pot, painted.....	4x¾	\$0.30	\$1.25	\$2.00	5 lbs.
Pot, painted.....	5x¾	.35	1.50	2.50	6 lbs.
Pot, painted.....	6x¾	.40	1.75	3.00	8 lbs.



Tree, painted, cop-					
per wired.....	3½x¾	.35	1.50	2.75	6 lbs.

Add Postage

Lawn Edge Trimmer



With this tool the rough, straggling, overhanging grass along the edges of the walk can be trimmed in a few minutes. It plows a clean U-shaped trench, delivering the cutting on the sidewalk, making it appear as though a barber had performed the work.

Price, \$1.75. Weight, 3½ lbs. Add postage.

Hedge Shears

No. 800—Forged mill finished tool, steel tempered, 8-inch blades, 10-inch handle. Clear selected stock handles, riveted through heavy enameled ferrules, and insuring absolute security. Best material and workmanship. A superior tool. Blade notched. Price, \$2.50; weight, 3 lbs.; add postage.

No. 880—Serrated, 8-inch blade, 9-inch handle. A lighter, quicker cutting shear made for new growth hedge, topping shrubs and grass. Cutlery steel blades riveted to green enameled malleable tangs. Price, \$2.50. Weight, 2 lbs. Add postage.

Grass Shears



NO. V52—With Trowel shank. Cutlery steel. 6-inch blade. Green enameled spring with full polished handles and cutting edges. Price, 85c; weight, 1 lb.; add postage.

NO. V2—Green enameled handle and spring. Full polished edges. With straight shank. Price, 70c; weight, 1 lb.; add postage.

Grass Hook

Patented offset. Swings perfectly in the hand with little muscular effort. Forged cutlery steel. Tempered, ground sharp and whetted. Oil finish maple handle.

Price, 65c; weight, 2 lbs.; add postage.

Asparagus Knife



Has long shank and blade for cutting the tips below the surface. Length over all, 15 inches. Octagon tool steel tempered.

Price, 50c; postpaid, 55c.

CORN KNIFE



No. 6 SPECIAL STEEL—Length of blade, 15 inches. Width at end, 3 inches. Length over all, 21½ inches. Number of rivets, 3. Weight, 2 lbs. Price, 75c; add postage.

Celery Tape

Put up in spools of 1,000 yards. Color, red and green.

Price, \$4.50. Weight, 3¾ lbs. Add postage.

Tin Tops

Packed 500 in crate. 3-lb. size, \$15.00 per M; 5-lb. size, \$16.00 per M. Prices subject to change.

Berry Hallocks

Strawberry self-folding hallocks are tied in bundles of 250, and are known as deep, full-sized pints. Weight, 16 lbs.

Raspberry hallocks are also self folding and tied 250 in bundle, full pints but are known as the shallow type. We do not break bundles of either hallocks. Weight, 16 lbs.

Price of both, \$1.50 per bundle, or \$5.50 per M, and subject to change. Add postage.



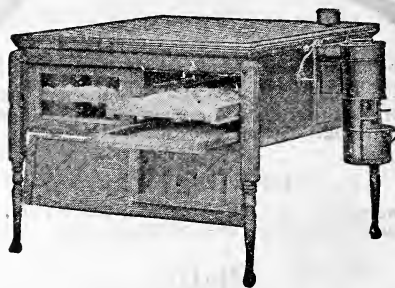
BASKETS

Please note the construction of the basket here shown and you will readily see that the different wires are electrically welded together, thus forming a solid construction, making all parts equally durable, and thus making it impossible for it to fall apart.

10-inch, 20c; ½ doz., \$1.15; doz., \$2.00; wt. 5 lbs.
12-inch, 25c; ½ doz., \$1.50; doz., \$2.75; wt. 7 lbs.
14-inch, 40c; ½ doz., \$2.00; doz., \$3.75; wt. 10 lbs.
16-inch, 60c; ½ doz., \$3.25; doz., \$6.00; wt. 14 lbs.

See Page 29 for description of Evening Scented Stock. Blossoms partly closed during the day, open and send forth fragrance in the evening.

Poultry Department



Queen Incubators

Provides uniform heat over egg chamber that is most natural for the hatching eggs.

The Queen is doubly insulated. First, double walls of California redwood is used, thus forming a dead air space. Second, corrugated straw-board is used between the wooden walls.

Boiler and radiator of the Queen heating system is made of copper (not copperized tin), and placed close to the inner top of the incubator.

Factory Prices

Our Prices

No. 1—85-egg size,	\$ 30.50.....	\$20.33
No. 3—180-egg size,	48.25.....	32.17
No. 4—275-egg size,	62.50.....	41.67
No. 5—400-egg size,	73.75.....	49.17
No. 25—600-egg size,	116.00.....	77.33

Style K Incubator

Factory Prices

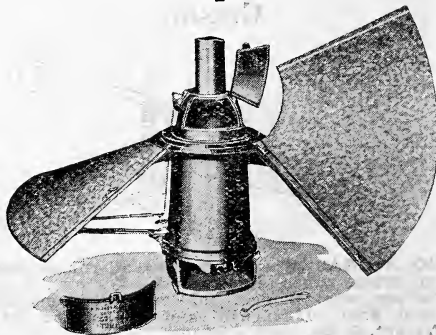
Spokane Prices

No. 20—70-egg size,	\$18.00.....	\$12.00
No. 21—130-egg size,	30.75.....	20.25

Style K Incubators are constructed of double wall redwood. The top of the machine is lined with insulation. The heater and pipes are made of aluminum. The machine is equipped with the same expansion cup and thermometer as the regular Queen.

Reduced Prices on BROODERS

Torpedo

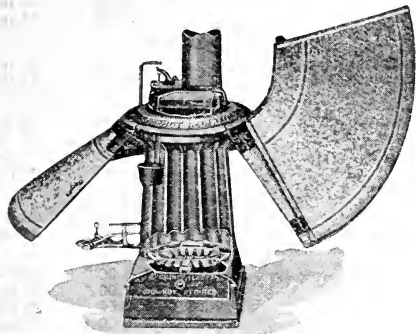


The "Torpedo" ball bearing shaker grates mean clean burning fuel and even temperature maintenance. "Torpedo" features include large ca-

capacity fire pot, patented improved draft intake, special cold air check damper, large ample size fuel door, (placed above hover for accessibility), double safety wafer yoke, (with safety expansion device which prevents wafer breakage.)

Canopy	Coal Capacity	Grate	Ship. Wt.	Price
6 in.	54 lbs.	11½ in.	130 lbs.	\$25.00
6 in.	60 lbs.	12¼ in.	150 lbs.	\$27.50

Red-Hed



The RED-HED with its patented full section Hinged Door makes it easier to fuel at the top—easier to handle and operate. Its patented canopy can be instantly removed without taking down stove pipe—it rotates around stove at any height, making it easy to get at any part of stove or chicks. Canopy can be instantly raised or lowered without ropes, pulleys or stove pipe attachments. The new RED-HED is the "last word" in convenient, dependable brooder stoves.

48-inch canopy	\$26.50
58-inch canopy	32.50
68-inch canopy	37.00

Air Blast Brooder

The AIR BLAST will keep your brooder house warm in any weather. By partitioning your brooder house with wire netting, you can have chicks of all ages in your brooder house at one time. So perfect is the Automatic Thermostat Control that it can be turned down so that the flame is no larger than you would burn in a house lamp, or it can be turned up to produce sufficient heat to keep the brooder house comfortable in zero weather.

Flame confined in steel screen. Hinged canopy top. Automatic thermostat control. Tenggallon oil container.

Dimensions—Length of hinged canopy, 32 inches. Body, 24½x12 inches. Height from center of canopy to floor, 27 inches. Shipping



weight, 100 lbs. Stove pipe not furnished. Order elbow and 4-inch stove pipe if wanted.

Price—Brooder, \$34.50. Elbow, 50c. Stove Pipe, 30c. Extra 5-foot lengths of copper tubing to go between oil container and float valves with couplings, 75c each.

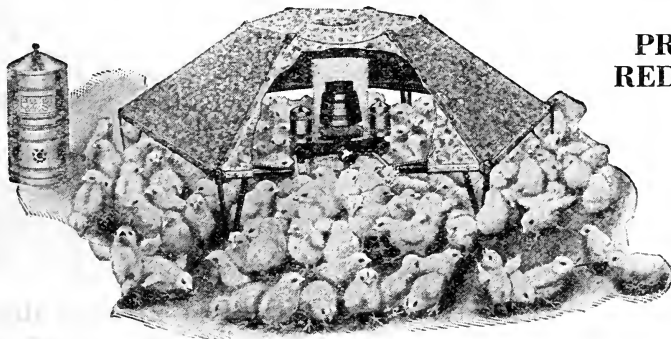
Pipes—Elbows

No pipes or elbows furnished with stoves. Order as many lengths of pipe as you need, also elbow if needed, and add to price of stove.

When ordering pipe, caps, elbows or roof plates, be careful and specify exact size wanted. Our 3 to 4 inch pipe is 3 inches at one end and 4 at the other. This rule applies to other sizes of pipes.

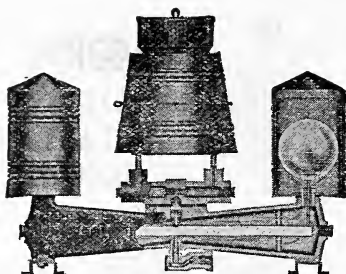
3-inch pipe, 25c.	3-inch elbow, 50c.
3 to 4-inch pipe, 30c.	4-inch elbow, 50c.
4-inch pipe, 30c.	5-inch elbow, 60c.
4 to 5-inch pipe, 30c.	6-inch elbow, 70c.
5-inch pipe, 30c.	3-inch cap, 50c.
5 to 6-inch pipe, 30c.	4-inch cap, 50c.
3-inch roof plates, 60c.	5-inch cap, 60c.
4-inch roof plates, 75c.	6-inch cap, 70c.
5-inch roof plates, 90c.	

The new improved Sol-Hot embodies the fundamental principles that are absolutely necessary in a heater for the successful hatching and rearing of chicks. It is the one heater on the market that is absolutely automatic. Once the burner is lighted it cannot go out as long as there is oil in the oil supply tank.



**PRICES
REDUCED**

New Sol-Hot Brooder



AUTOMATIC TWIN-FLOAT OIL LEVEL

You never have to give the question of oil level a moment's thought. You set the Sol-Hot anywhere, level, tilted or on an angle—it makes no difference; the twin-float oil level automatically levels the oil in the burner well and keeps it at the proper level all the time.

DOUBLE-FEED WICKLESS BLUE FLAME BURNER

This wonderful burner converts common kerosene into gas, producing the most intense, steady, uniform, blue flame without smoke, soot, or fumes. It has no wick to trim or carbonize—it won't burn uneven—it won't overflow—it won't flare up on one side—it won't go out as long as the oil supply lasts.

OIL CONTAINER CAN BE PLACED ANYWHERE

If you operate more than one brooder you can attach them all to one oil container.

A small copper tube is used to connect oil container to the burner and as the Twin-Float Oil Level takes care of keeping the oil level at the burner you can put your oil container where it will be most convenient for you.

Capacity 2 gallons.

SOL-HOTS, COMPLETE

Canopy	Price	Weight
24-inch	\$12.00	29 lbs.
34-inch	16.50	38 lbs.
44-inch	19.00	44 lbs.
54-inch	21.00	51 lbs.

GIANT SOL HOT

54-inch	\$23.00	55 lbs.
64-inch	25.50	63 lbs.

HEATERS

24-inch	\$ 8.50	17 lbs.
34-inch	11.50	18 lbs.
44-inch	12.50	19 lbs.
54-inch	13.00	20 lbs.

GIANT HEATERS

54-inch	\$15.00	24 lbs.
64-inch	15.00	24 lbs.

CANOPIES

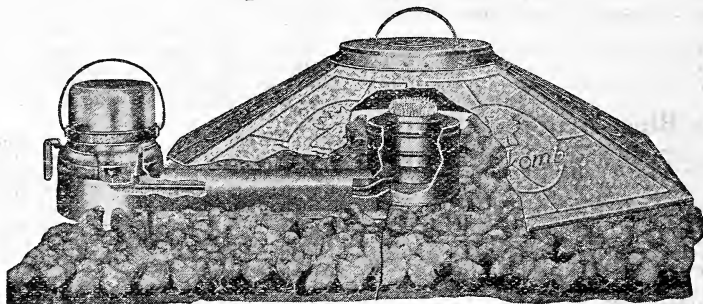
24-inch	\$ 5.00	12 lbs.
34-inch	7.00	20 lbs.
44-inch	8.50	25 lbs.
54-inch	10.00	31 lbs.

GIANT CANOPIES

54-inch	\$10.00	31 lbs.
64-inch	12.50	39 lbs.

Add postage. 54 and 64-inch will not go by mail.

Simplicity Oil Brooder



\$9.95

\$11.40

\$12.95

Stands alone in construction, appearance and ease in operation. In the field of burners unequipped with thermostatic control, it stands so high that all others are judged by it. In the simplicity the flame is automatically maintained where desired without the aid of unreliable valves or sliding joints. The control is simple and cannot wear out. The oil pipe line with a clean-out plug at its end, is securely brazed from one end to the other. Burners are specially designed for brooders. A wire weave lighting ring gives a flame immediately.

The 52-inch canopy is equipped with a 5-inch giant burner, a guarantee against weather troubles.

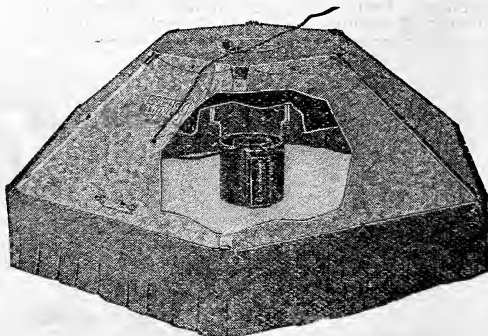
In illustration canopy is cut to show construction and improved pipe line.

Canopy	Price	Weight
35-inch	\$ 9.95	34 lbs.
45-inch	11.40	38 lbs.
55-inch	12.95	51 lbs.

Add postage. 52-inch not available.

Glass Oil containers for Simplicity Brooder, \$1.50. Must go by express. Safe delivery not guaranteed.

Electric Brooders



Sol-Hot Electric Brooders

The Sol-Hot Electric Brooder Thermostat has the thermometer and temperature control

mounted together. The control is magnetic, and gives instantaneous make and break of circuit. The contact is wiping in its action. The contact points are platinum.

The air in the double drum ascends and draws in cool air from below, thus resulting in continuous circulation of air under the canopy.

Current is used only when needed. The consumption ranges from 250 watts on the 34 in. up to 500 watts consumption on the 64 in. canopy when turned on. This means quick recovery from heat losses under the brooder.

No.	Canopy	Price	Weight
1	34 in.	\$17.25	39 lbs.
2	44 in.	21.00	46 lbs.
3	54 in.	23.00	53 lbs.

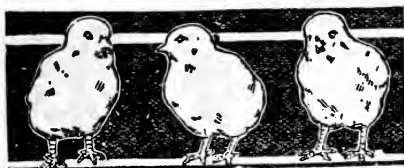
Add postage. 54-inch size not mailable.



Trouble-proof, practical and yet inexpensive electric brooder. Furnished with 50 watt protected heating unit. Canopy 24 in. in diameter made from heavy galvanized iron supported by strong steel legs. Handle on top permits carrying. Complete with 10 ft. of cord. Capacity 50 to 75 chicks.

Each, \$3.25. Weight, 5 lbs. Add postage.

Day Old Chicks



We have made arrangements with one of the best hatcheries in the West to supply us with day-old chicks. Please note that these chicks are:

100% B. W. D. Tested.

A. P. A. Certified.

100% live chicks guaranteed.

All orders prepaid.

Send orders and remittance direct to us, giving date when wanted. If unable to furnish at date wanted, you will be notified when they can be supplied. It is advisable to place your order as early as possible, as by placing order early you are less likely to be disappointed. Should there be any dead ones, count the live chicks, as this Hatchery usually puts in some extra. Hatchery reserves the right to send by express or parcel post. Chicks forwarded by boat, stage, or to prepay stations are sent at purchaser's risk. All chicks shipped direct from Hatchery.

Lee's Commercial Matings

	Jan. 1 to Feb. 20	Feb. 20 to Apr. 23
PREPAID PRICES—Per 100		
White Leghorns	\$13.00	\$14.00
R. I. Reds, Barred Rocks	15.50	16.50
White Rocks, Buff Orpingtons, White and Black Minorcas	19.00	19.00
Jersey Black Giants	20.00	20.00
Light Brahmas, White Wyandottes	22.00	22.00
Anconas, Buff and Brown Leghorns	15.00	16.00

Extra Heavy Assorted, Mixed; may include White Rocks, Orpingtons, Brahmas, Wyandottes	16.00	16.00
Heavy Assorted	14.00	14.00
Light Assorted	11.00	11.00
1c per chick more in 50 chick lots; 2c per chick more in 25 chick lots; 1/2c per chick less in 500 chick lots; 1c per chick less in 1000 chick lots; no quantity discount on assorted chicks.		

Lee's Special B Matings

	Jan. 1 to Feb. 20	Feb. 20 to Apr. 23
PREPAID PRICES—Per 100		
White Leghorns	\$16.00	\$17.00
R. I. Reds	22.00	22.00
White Rocks, Buff Orpingtons, White Minorcas, Black Minorcas	22.00	22.00
Barred Rocks	19.00	19.00
Jersey Black Giants	23.00	23.00
Light Brahmas, White Wyandottes	25.00	25.00
Buff Leghorns, Brown Leghorns, Anconas	18.00	19.00
1c per chick more in 50 chick lots; 2c per chick in 25 chick lots; 1/2c per chick less in 500 chick lots.		

"Tycos" Incubator Hygrometer

"Tycos" Incubator Hygrometer is not a regulator of moisture, but is an indicator of conditions, so that if not correct, they may be made so. Each, \$1.50; postpaid, \$1.60. Hygrometer wicks, each 25c.

We pack thermometers and all glassware in as safe a manner as possible, but will not be responsible for their safe delivery, owing to the great risk of breakage.

Egg Tester

It is designed for use on an ordinary hand lamp. In a dark room the light will be strong enough to penetrate the shell and illuminate the interior of the egg. Price, 45c; weight, 3/4 lbs.; add postage.



Lamps



Inland Safety
Brooder Lamp

No. 8 brooder lamp. The Inland Safety Brooder lamp requires no chimney; never

smokes, burns a steady flame. The air fingers carry fresh air direct to the flame. This gives perfect combustion and more heat for a given amount of oil than with any other burner. Top of lamp is made to hold water, and it is essential to keep water there owing to heat being reflected back upon the lamp. Weight, 2 lbs. Height of bowl, $4\frac{1}{4}$ inches; diameter, $7\frac{1}{4}$ inches.

Price, complete with burner and wick, \$2.00; postpaid, \$2.10.

No.	Burner	Height Bowl Inches	Diam. Bowl Inches	Price
2	2	2 $\frac{3}{4}$	7	\$1.75
3	3	3 $\frac{1}{4}$	8 $\frac{1}{4}$	2.00
4	32	3 $\frac{1}{4}$	8 $\frac{1}{4}$	2.00

Lamp Bowls

For 3 Burner.....\$1.25
For 2 Burner.....1.25

Add 10c for postage on lamps and lamp bowls.
If chimney wanted for any of the above, add 50c.

Lamp Burners

No. 2 Sunburner. Price, 60c; postpaid, 65c.
No. 3 Sunburner. Price, 75c; postpaid, 80c.
No. 1 Zenith, no chimney, $\frac{3}{4}$ inch wick. Price, 60c; postpaid, 65c.
No. 2. Zenith, no chimney, 1 inch wick. Price, 75c; postpaid, 80c.
No. 32, $3\frac{1}{4}$ inch chimney, 1-inch wick. Price, 60c; postpaid, 65c.

Lamp Chimneys

Chimney, $2\frac{1}{4} \times 5$ inches, for No. 2 burners. Price, 50c; postpaid, 55c.
Chimney, $3\frac{1}{4} \times 6$ inches, for No. 3 burners. Price, 50c; postpaid, 55c.
Chimney, $3\frac{1}{4} \times 3\frac{1}{4}$ inches, for No. 32 burner. Price, 50c; postpaid, 55c.

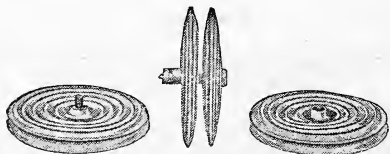
Lamp Collars

For No. 2 burners, 10c each.
For No. 3 burners, 15c each.

Lamp Wicks

No. 1, 2, 3, 5c each; 50c dozen.

Wafer Thermostats



Wafer Thermostats are made of two round concave discs, sealed together at the outer edge. The cavity between them is filled with a volatile liquid which is sensitive to changes in temperature.

3, 4 and 5 inch sizes with thread connection on lower side and beveled place on upper side, also same with solid point on lower side. All thermostats double brass.

	Postpaid
3 inch	\$0.40
4 inch	\$0.50
5 inch .....	.65
	.75
	.90
	1.00

LEG BANDS



Champion

This band is made in one piece, is adjustable to fit any fowl. They will stay where you put them. Held by double lock, it is impossible for them to lose off. Made of aluminum. Postpaid, 12, 15c; 25, 25c; 50, 40c; 100, 75c.

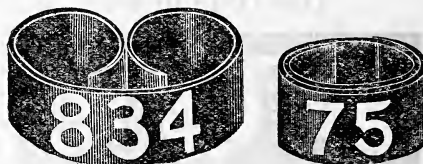


Spiral

Made like a key ring, easy to put on. Birds identified easily on account of the different colors. Carried in white, green, black and pink for the following breeds: Asiatics—Brahma, Orpington and Langshans. Americans—Plymouth Rocks, R. L. Reds and Wyandottes. Mediterranean—Leghorns, Minorcas and Anconas.

Price: No. 9 for the Mediterranean breeds and pigeon bands, 12, 10c; 50, 25c; 100, 40c. Asiatic and American breeds, 12, 15c; 50, 40c; 100, 60c.

Bandettes



Open

Closed

Bandettes are strongly made, will not become uncoiled and having a smooth, plain surface, do not get clogged with dirt to obscure the colors and numbers. The colors are not affected by weather, are always bright and distinctive. The bands spring back to their original size after being opened out to put on bird's legs.

Two sizes. No. 9 Leghorns. No. 11 Rocks, etc. Colors: Red, Yellow and Green. Price, doz., 40c; 25, 65c; 50, \$1.15; 100, \$2.00.

Petty's Poultry Punch



Latest, most convenient Poultry Punch; will not clog. Thoroughly practical. Postpaid, 25c.

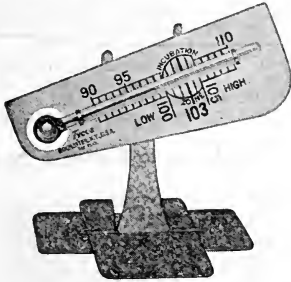
See Page 81 for description of Page Portable Milker and Renfrew Cream Separator.

See Page 10 for Idaho Grown New York Lettuce, also for California Grown New York Special No. 12.

NOTICE

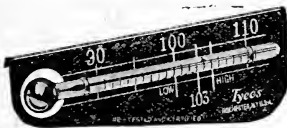
Thermometers and all glassware are carefully packed, but safe delivery not guaranteed and we will not be responsible for breakage. To insure safety send insurance fee with your remittance.

Incubator Thermometers



When used with Stand

5776 — TYCOS INCUBATION-ZONE—4-inch while-enamelled metal scale with black figures and graduations; plain glass tube filled with distilled mercury; circle between the 100° and 105° points on the scale makes it easy to note whether the incubation temperature of 103° is being held. Price, \$1.00; postpaid, \$1.10.



When used without Stand

5783 — TYCOS CERTIFIED — Angle-pattern 4-inch black oxidized metal scale with white-filled figures and graduations; plain glass tube filled with distilled mercury; every fifth line and figures stamped on the scale and every single degree line engraved on the glass thermometer tube. Price, \$1.25; postpaid, \$1.35.

Brooder Thermometers



5436S



5792

5436S—Black finished brass scale, with white filled figures. Range 20° to 60° F. below to about 120° F. above. Metal case, magnifying

lens tube, non-fading red permacolor filled. Price 75c; postpaid, 85c.

No. 5792—Designed for inserting through top of brooder, bulb being in the actual brooder temperature, and scale outside for easy reading. Black lithographed metal scale, mercury filled tube, mounted on flat side of half-round wood frame. Length over all, 7 inches. Bulb protected by a tin guard. Ordinary grade. Price, 90c; postpaid, \$1.00.

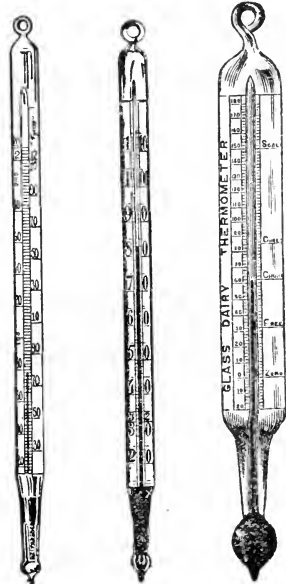
Dairy Thermometers

Glass Floating

5700—Churn Thermometer. Glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to 110° F. in 1° graduations. Best grade. Price, \$2.00; postpaid, \$2.10.

5701—Pasteurizing Thermometer, glass cylinder hand written paper scale, 2° graduation, accurate within one division of the scale, mercury tube. Approximate scale range, 30° to 220° F., 10 inches. Weighted to float upright. Price, \$2.00; postpaid, \$2.10.

5702—Churn Thermometer, glass cylinder with enclosed paper scale; 10" long; mercury filled tube; weighted to float upright. Range 10° to



5700

5701

5715

110° F. in 1° graduations. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

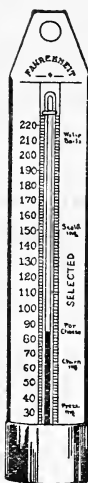
5703—Pasteurizing Thermometer, glass cylinder hand written paper scale; 2° graduation, accurate within one division of the scale; mercury tube; approximate scale range 30° to 220° F.; 10 inches; weighted to float upright. Highest quality imported thermometer of this type obtainable. Price, \$1.00; postpaid, \$1.10.

Please note that the description of 5700 and 5702 is exactly alike. This is also true regarding 5701 and 5703. Then note the difference in price and that the one is imported and the other is American made

5715—All glass floating Churn and Pasteurizing Thermometer. Approximate scale range, 0° to 150°. Length, 8 in. Mercury filled tube. Best imported. Price, 50c; postpaid, 60c.



5706



5740S

Flanged Metal Scale

5705—Flanged, metal scale Churn and Pasteurizing. Ten-inch electro silver plated scale, gold plated straps and screws, magnifying mercury filled tube, sliding guard; approximate scale range, zero to 220° F., 10 inches. Selected common grade. Price, \$2.00; postpaid, \$2.10.

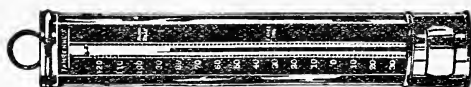
No. 5740S—Selected Ordinary Grade. Brass scale with engraved figures and graduations sliding bulb guard; white back, permacolor filled tube; approximate temperature range 20° to 220° F.; length, 8 in. Price, \$1.00; postpaid \$1.10.

Greenhouse Thermometers



5400S

No. 5400S—Best grade, 10 inches, black japanned, heavy tin case. Spirit. Tube filled with red permacolor (non-fading and easy reading) black oxidized brass scale with white filled figures and graduations. Price, \$2.00; postpaid, \$2.10.



5420S

No. 5420S—Selected grade, 10 inches, black japanned tin case. Spirit. Same as 5400S, but selected grade instead of best grade. Price, \$1.50; postpaid, \$1.60.

Soil (Hot Bed) Thermometers



No. 5931—It has a strong, pointed, metal end-piece; the glass tube and V-shape metal scales are sunk in the wood back; length, including shaped handle, is 15 inches. Price, \$2.75; postpaid, \$2.85.

Thermometers and all glassware are packed in the most careful manner, but owing to the great liability of breakage we will not be responsible in case of breakage. To avoid loss the best plan is to have them insured, and if you so desire, include insurance with your remittance.

Hydrometer



P7244—Salt Scale Salometer. Range 0 to 100. Graduation 1-60% F. Length 11 inches. Price, \$1.50; postpaid, \$1.60.

Safe Edge Killing Knife

FRENCH SAFE-EDGE KILLING KNIFE
PILLING - PHILA.

Exactly same as French Killer except cut on one side only. Price, 60c; postpaid, 65c.

Pilling Angular Killing Knife

ANGULAR POULTRY KILLER
PILLING - PHILA.

By simply turning the wrist the jugular vein and spinal cord are cut, thereby bleeding the fowl, allowing the feathers to be removed without using water. Price, 60c; postpaid, 65c.

Lansdowne Capon Sets



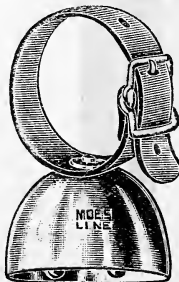
Lansdowne Automatic Testicle Remover is, as its name implies, automatic—quick, easy to use and just the remover for the beginner. Does not have a lot of unnecessary springs which are liable to get out of order. The grasping loops are exactly same principle as the Miles Remover, which has been in use for fifty years; but our patent feature has made it perfect as to simplicity of the operation and to prevent making slips.

Price, \$4.50. Postpaid, \$4.60.

New Philadelphia Capon Set



Consists of a knife for making the incision; the spreader for holding sides open; sharp hook for piercing skin; the Lansdowne Remover for removing the testicles. Cords with hooks for holding the bird. Cup forceps for removing any foreign matter. Price, \$3.00; postpaid, \$3.10.



Turkey Bells

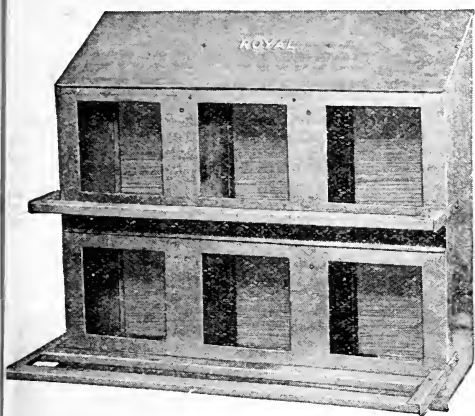
Each, 40c.

Nest Eggs

Porcelain—Price, 5c each; 1/2 doz., 20c; doz., 35c; mailing weight, 2 lbs. per dozen; add postage.

Sanitary Hens' Nests

These galvanized steel nests are made in three compartment size only. Lid lets down to form a perch. Sloping top prevents roosting on nest. Nests set on brackets or hang on wall. Convenient, sanitary and vermin-proof. Each compartment is 11 inches wide, 13 inches from front to back, and 12 inches high at the rear. Price, \$3.50; weight 30 lbs. Add postage.



Nests are made from 26 gauge galvanized iron throughout and furnished complete, single above and double folding perches below as illustrated. Made without backs to insure easy cleaning. Size of each compartment approximately 12x12 inches. Cut shows 6 nests but our quotation is for 10 nests. Weight, 65 lbs. Each, \$12.00.

Wire Hens Nests

These nests are strongly made from heavy japanned steel wire. They are intended to be fastened to the wall with screws or screw hooks. There is no room on them for lodgment of lice or vermin of any kind; they are easy to keep clean and are far superior to wooden boxes.

Size, 14 inches in diameter, 1 1/4-inch mesh. Each, 15c; doz., \$1.75. Weight 1/2 lb. each. Add postage.

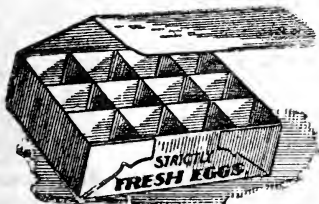
Hatching Egg Boxes

These boxes are specially designed to withstand the rough usage and to afford complete protection to the eggs. Compare the weight of these boxes with others that are quoted at a lower figure, and you will be enabled to judge of their respective qualities.

	Each	1/2 Doz.	Doz.	Wt. Doz.
15 eggs	\$.35	\$1.75	\$3.00	20 lbs.
30 eggs	.50	3.00	5.25	30 lbs.
50 eggs	.65	3.75	7.00	40 lbs.

Add postage.

EGG BOXES



Paper—Intended for use in delivering eggs to private families. If you have a select egg trade you should use this box.

Doz., 25c, postpaid; at purchaser's expense,

package of 125, \$1.10; 250, 1/2 doz., \$1.75; 500, \$3.50; 1000, \$6.80. Weight of 125, 15 lbs. Add postage.

Egg Cases

Each, knockdown, 35c; 1/2 doz., \$1.75; doz., \$3.00. Weight, each 7 lbs. Add postage.

Egg Case with fillers. Each, 70c. Weight, 12 lbs.; add postage.

Egg Case Fillers

Pasteboard fillers for 30-dozen case, 30c.

Weight, 6 lbs. Add postage.

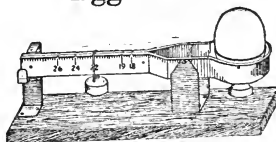
Pasteboard fillers, per case (for 12 30-dozen cases), \$2.50.

Weight of case, 55 lbs. Add postage.

Egg Cases

Frame is made of the best quality of sheet steel. Wood is fastened to steel by a patented indestructible carrier. Cover rests on steel process, making a light, rigid and practical frame and can not be pressed down on contents of crate. Handles are made of steel spring wire and are fastened securely to steel frame so that they cannot work loose or come off. Capacity, 12 dozen; weight, 7 lbs. Price, 85c; add postage.

Egg Scales



It makes no difference how you place the egg on the Champion Egg Scale because the egg cup is balanced on axis and is always held to "perfect center" by the balance weight under the cup. Simple in construction and easy to operate.

Grade Eggs in following grades: 19, 22, 24, 26 ounces to the dozen. Made of solid brass—will not get out of order—no loose parts to get lost.

Price, \$1.75 each; postpaid, \$1.85.

Live Chick Boxes

These shipping boxes are well made of high-test corrugated paper, which is very strong and durable. The construction of these boxes is such as to afford the greatest strength and stiffness, without unnecessary bulk of weight.

Capacity	Size	Each	1/2 Doz.	Doz.	Wt. Doz.
25	9x11x5 1/2	20c	\$1.00	\$1.75	14 lbs.
50	18x11x5 1/2	25c	1.25	2.00	18 lbs.
100	27x22x5 1/2	35c	1.75	3.00	32 lbs.

Add postage. Prices subject to change.

Shipping Coops

INLAND — All wood, neat, very light, but strong. Poultry raisers selling poultry at fancy prices should always use these coops.

	Each	1/2 Doz.	Doz.	Weight Each
No. 1—10x20x20	\$0.40	\$2.25	\$4.25	6 lbs.
No. 2—12x24x20	.50	2.75	5.25	10 lbs.
No. 3—20x24x20	.60	3.50	6.75	13 lbs.

Add postage.

"United" Steel Feeding Battery

An eight-compartment, all steel battery good for 400 to 450 lbs., or 80 hens. Size 27x54x76 1/4 inches high. All four sections 15 inches high. Equipped with 1 1/4-inch seamless galvanized troughs. Doors slide up, which is a most convenient feature. Two heavy galvanized trays underneath each section for droppings to collect in. Heavy angle iron truck equipped with 6 1/4-inch truck wheel and 3-inch casters.

Where large quantities of poultry are handled, the 16-compartment battery is the best size. It has a capacity of about 112 grown birds. Height 77½ inches, length 62½ inches, width 37 inches. Weight, complete with troughs, 392 pounds.

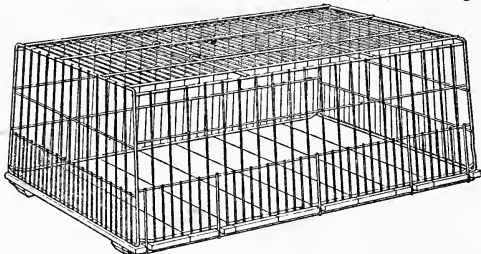
Send for descriptive circular and price.

Egg-O-Latum

Egg-o-latum is a white cerate. Rubbed over the shell of the egg it seals every pore. A dozen a minute and they will keep a year. Fresh eggs must be used, unfertile ones are best. One package treats 50 doz. eggs.

Price, 50c and \$1.00. Postpaid, 55c and \$1.10.

Clover Leaf Steel Shipping Coop



It is made of galvanized steel bars and wire, and will not rust.

It has a narrow mesh on top, which eliminates the possibility of the poultry poking their heads through and being killed.

Self locking. Side door on top.

Weights but 24 pounds, and never gets heavier.

Size 27x41x14 inches high. Price \$4.75.

Size 27x41x20 inches high. Price \$5.75.

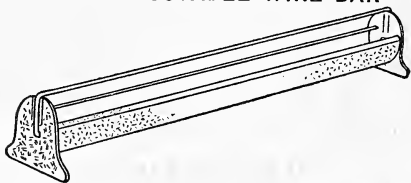
Automobile Coop

For conveying poultry to market this coop has no equal. It replaces the unsightly, unsanitary makeshift coop, and will last many years. It is light, easily attached to the automobile, and projects but an inch or two beyond the edge of the running board.

Price, \$4.50.

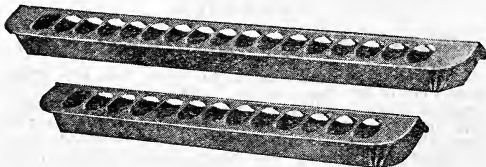
Chick Feeders

WITH ADJUSTABLE WIRE BAR



Made from 26-gauge galvanized iron and furnished with extra heavy rod which keeps chicks off top of trough and which adjusts down to side of trough for cleaning or filling without removing. Extra heavy ends and made with lip along side.

No. 140—24-inch, weight 1½ lbs. Price, 30c. Add postage.

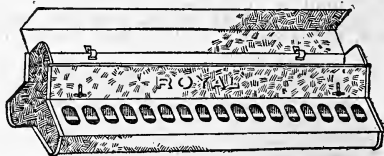


Made from extra heavy galvanized iron with slide top, bottom pan one piece and can be used

for either feed or water. Edges on all holes turned and smooth. A strictly quality feeder.

No.	Length	No. Holes	Price	Weight Doz.
218.....	18 in.	26	35c	14 lbs.
224.....	24 in.	34	40c	18 lbs.

Add postage.

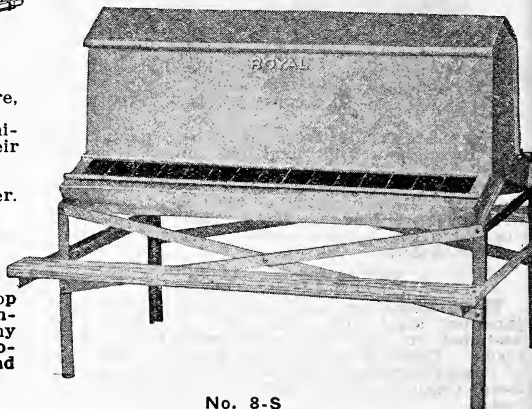


This feeder is made from 26-gauge galvanized iron in two lengths. Hinge top with new style hinge, adjustable sides, turned edges on feeding holes, which are placed high to prevent waste.

No.	Length	No. Holes	Wt.	Price
142.....	24 in.	34	6 lbs.	\$1.25
163.....	36 in.	54	9 lbs.	1.75

Add postage.

Mash Feeders



No. 8-S

Large capacity hopper made from heavy galvanized iron of sufficient size to hold one hundred pounds of mash. Hopper is larger and wider at the bottom, provided with slide top which slides on heavy galvanized rolls. Stand is made from heavy galvanized angle iron and has wood perches.

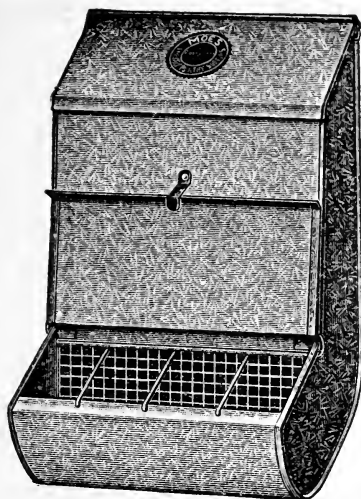
No. 8-S—Length, 36 in. Shipping weight, 55 lbs. Price, \$11.75.

Inland Grit and Shell Box

The Inland Sanitary Grit and Shell Boxes work a material saving in grit, shell, bone, charcoal or poultry feeds. They are thoroughly practical, self-feeding, made of heavy galvanized iron. They are provided with a cover or lid, which protects the contents, and being placed at an angle furnishes a slanting top, preventing the fowls from roosting on the top of the box. Length of 3 compartments 12 inches. Price, \$1.00; weight 4 lbs. Add postage.

4 compartments, 16½ inches in length. Price, \$1.25. Weight, 5 lbs. Add postage.





Improved Wall Mash Hoppers made from heavy galvanized iron, all seams double seamed. Hopper is larger at bottom than at top, which prevents clogging.

No.	Width	Capacity	Weight	Each
81.....	12 in.	14 qts.	25 lbs.	\$2.00
83.....	24 in.	32 qts.	38 lbs.	2.75

Add postage.

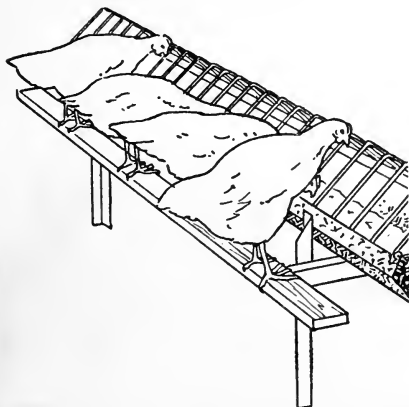
Oat Sprouters

The Successful Sprouter is built in sections. The size of the base is 20 by 15 inches high. Each section contains two trays. Size of section is 20 inches square and 10 1/4 inches high. Each tray measures 17 inches square.

Has hinged top so you can sprinkle the grain from above in one operation. Capacity, from 40 to 50 quarts dry grain, and is recommended for flocks of from 400 to 600 hens. The sprouter here shown in cut has three sections or 6 trays.

Quote 5 sections, 10 trays. Price, \$20.00.
Quote 2 sections, 4 trays. Price, \$12.50.

Mash Feeders



Built to feed dry mash, wet mash and green feeds. Trough made from heavy galvanized iron, having hinged wire top which prevents hens from getting into trough and wasting feed. Trough easily removed from stand for filling or

cleaning. Stand made from heavy galvanized channel iron with wood perches.

No.	Length	Weight	Price
36	36 in.	18 lbs.	\$3.75
60	60 in.	29 lbs.	\$5.00

Top Fill Fountains



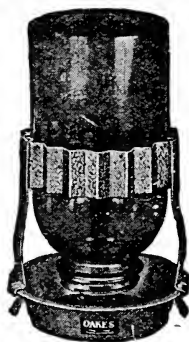
Made from heavy galvanized iron with double tank. Can either be set on floor or hung on wall. Covered outlet keeps dirt out of drinking water in pocket. Top filled.

No. 69—2 gallons. Weight, 7 lbs. Each, \$1.75. Add postage.

CHICK FOUNTAINS

Buttermilk Feeders

No. 70B—Examine carefully this splendid buttermilk feeder for use with half-gallon Mason jars. It comes with aluminum pan but without jar. The pan is held close to mouth of jar in up-ending, to prevent spilling. It is then adjusted to feed at desired depth. Price, 40c; postpaid, 45c.



Mason Jar Fountains

Made from extra heavy galvanized iron, blue enameled steel or Charcoal Tin. No solder used. Very substantial pan with heavy rolled edge; electric welded center. Glass jars not furnished.

No. 1 Enameled—Wt., 4 lbs. per dozen. Each, 10c. Add postage.



Float Valve

The reliable automatic float valve is made entirely of brass and copper, which makes it rust proof, and will work under any water pressure. Price, \$1.00; postpaid, \$1.10.

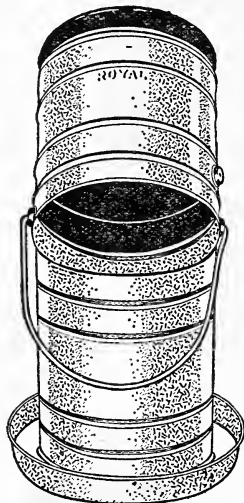
Made from heavy galvanized iron in two pieces. Top made with bail for carrying. Base pulls off to fill. Pressure of air and grooves in pan hold weight of water and fountain may be carried by handle without fear of spilling. Special deep narrow pan for chicks.

No. 30—Capacity 1 gallon; weight, 3 lbs.

Each, 65c; add postage.

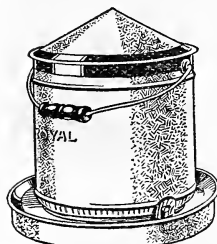


These fountains are made from heavy galvanized iron. Fill from the top and water feeds automatically through a small hole without valve into drinking pan all around fountain. Four heavy beads to strengthen both the outside and inside can, are placed on both the outer and inner parts of the fountain, so as not to interfere with the fountain telescoping together easily. Extra heavy bail permits carrying water in outer pail and pouring into fountain without removing it from brooder or poultry house. Bail fastens up out of way when not in use. Deep pan has heavy rolled edge.



No.	Capacity	Mailing Weight	Price
205.....	5 gal.	14 lbs.	\$3.25
208.....	8 gal.	16 lbs.	\$4.00

Thermic Fountains



This fountain is made from heavy galvanized iron with insulation that keeps the water warm in winter and cool in summer. The lower pan is also insulated to prevent the water that will be exposed to the air from freezing. It is very easily filled and cleaned, as the outer, which is the insulated tank, slips down over the inside tank into which the water is poured. The outer tank fastens to a metal projection with just a slight turn to the right, after it has been put in place.

No. 10—5 gallons. Weight, 28 lbs. Each, \$5.00. Add postage.

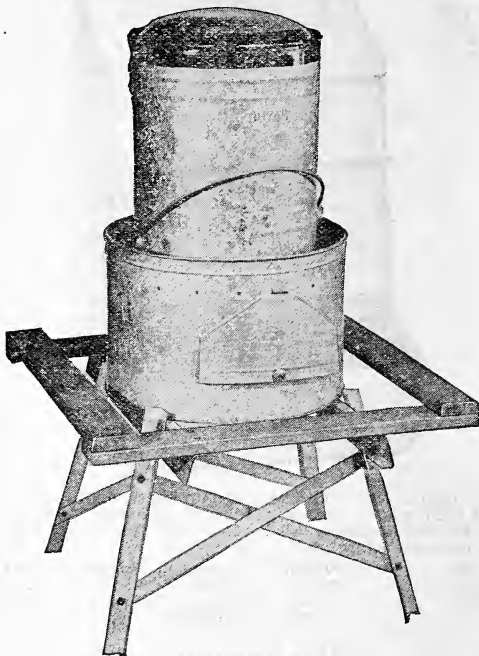
Electric Heater



Electric Heater made from heavy galvanized iron with solid rolled edge on bottom of pan, having 50 watt heating unit attached. Furnished complete with 10 ft. of cord and plug and can be used under any type fountain.

Each, \$1.90. Weight, 2 lbs. Add postage.

Fountain Heaters and Stands



This Heater and stand are both made of heavy galvanized iron except the perch, which is of wood.

The Heater exactly fits our No. 205 and 208 fountains with the entire bottom of the fountain setting inside the heater top, fitting very snugly.

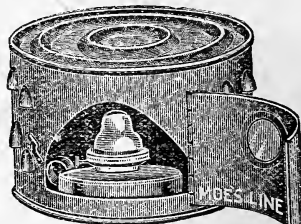
The Heater is of the open top type with a hinged door on side so that the lamp can be taken out for trimming of wick or refilling.

HEATER, STAND, FOUNTAIN COMPLETE

No.	Weight	Price
B.....	28 lbs.	\$7.50
C.....	30 lbs.	8.25
Heater only	7 lbs.	2.25
Stand only	9 lbs.	2.50

Add postage.

Fountain Heater



Solves the problem of a uniform supply of fresh water at all times, no matter how cold the weather. Can be used with all styles of fountains and makes an ideal heater fountain at a low price.

Price, \$2.00. Weight, 5 lbs. Add postage.

Poultry Scraper



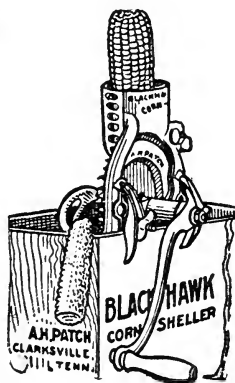
No. 200—Price, \$1.25. Mailing weight, 6 lbs.
No. 300—Price, \$1.00. Mailing weight, 4 lbs.
Add postage.

An excellent tool for scraping dropping boards, brooder floors, etc. Has curved blade of high-carbon steel. No. 200 has blade 16 inches in length by $5\frac{1}{2}$ in depth and $4\frac{1}{2}$ -foot handle. No. 300 has blade 12 inches in length by $4\frac{1}{2}$ in depth and 4-foot handle. Handles are made of ash and lacquered.

BLACK HAWK CORN SHELLER

A Sheller That Shells

It can be set to shell any corn that grows. Made with ball-bearings, obviating the expense of a heavy balance wheel. Easily fastened to box by thumbscrews—no bolts nor screws required—no holes to be bored. Weight, 14 lbs. Price, \$3.50. Add postage.



Banner Root Cutters

These excellent machines are so low in price that every farmer, stock raiser or poultry man

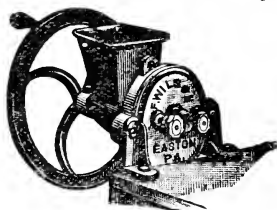


No. 7

should have one, as roots are the cheapest green feed for stock and poultry.

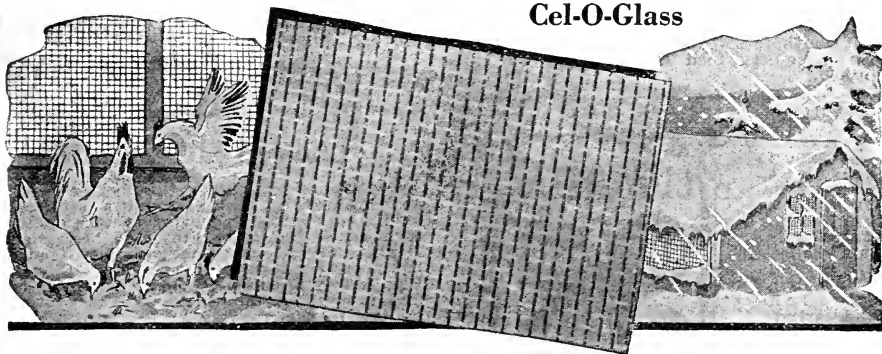
The Banner is substantially made of first-class material. Weight, 50 lbs. Extra knives, 35c each. Price, \$9.00.

The Wilson Dry Bone Mill



This is a practical mill, grinding all kinds of shells, crockery, grit, burnt or dry bone feed, etc. Instantly adjusted to grind coarse or fine. Weighs 33 pounds. Diameter of hand wheel, 20 inches. Price, \$6.00. Add postage.

Cel-O-Glass



CEL-O-GLASS

Cel-O-Glass is clear, tough and flexible. It is hail, rain, wind and rust proof, is a non-conductor of heat and cold, light in weight, and easy to apply.

In addition to furnishing a protection for your poultry, CEL-O-GLASS lets through the valuable, stimulating and health-giving Ultra-Violet

rays of the sun. Glass absorbs the Ultra-Violet rays and keeps them out. CEL-O-GLASS is ideal for hotbed sash, coldframes, greenhouse partitions and exterior sides and fronts, storm doors, cellar windows—in fact, wherever light and protection from the weather are required.

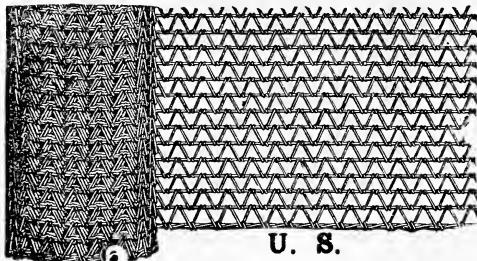
CEL-O-GLASS is made in rolls 2 feet wide, and 100 feet in length. Weight, 44 pounds. Price, per yard, \$1.20. Add postage.

VIO-RAY

The glass substitute that lasts longer. Made with a new coating process on an extra heavy fabric base. Is more flexible and more moisture-proof than other similar materials. VIO-RAY'S greater flexibility prevents cracking in cold weather. Its moisture-proof coating prevents premature rotting.

VIO-RAY transmits the ultra-violet rays of the sun which increase egg production, save baby chicks and promote health and growth.

Is weatherproof and does not rot like ordinary cloth window materials. 100 yards in roll. Width 3 feet. Price, 28c per yard. Postpaid.



U. S.

Poultry Netting

Prices per roll of 150 feet:

One Inch		Two Inch	
12 inches.....	\$3.00	12 inches.....	\$1.50
18 inches.....	4.25	24 inches.....	2.35
24 inches.....	5.45	36 inches.....	3.20
36 inches.....	7.40	48 inches.....	4.30
Less than roll, 3c		60 inches.....	5.35
square foot.		72 inches.....	6.40
Less than 50 feet,		Less than roll, 2c	
3 1/2 c square foot.		square foot.	

Prices subject to change.

Poultry Feeds

The prices herein quoted for poultry feed is for this date only, January, 1932, and may or may not continue for any length of time. Quotations on poultry feed or anything else not guaranteed.

The sharpest and hardest grit known. Free from dust. Rich in iron, silica, aluminum and mica. Each crystal has sharp edges, which cut and grind, and grind and cut until the last minute particle is worn away. In ordering state whether you want chick or medium size.

100 lbs., \$1.00.



The experience of poultry raisers is the same the world over, and that is that it is easier to hatch young chicks than it is to raise them. By using Clover Leaf Chick Feed you can give the chicks just what nature intended, mixed in the right proportion to produce a quick and profitable growth without loss.

25 lbs.\$0.75

50 lbs. 1.25

100 lbs. 2.25

Add postage.

CLOVER LEAF FORCING FEED, as its name implies, is specially intended for properly maturing young chicks after they are ready to be weaned from chick feed. When the chicks are from six to eight weeks old they are able to eat larger particles of grain than are found in our chick feed.

Our Forcing Feed contains a variety of grain in sizes and quantities exactly suited to the purposes for which it is intended. 50 lbs., \$1.25; 100 lbs., \$2.25.

This is composed of choicest grains in just the correct proportions that several years of experience has demonstrated is right. Every practical poultryman will readily concede the great advantage of feeding such a mixture. Price, per 100 lbs., \$1.75.



Clover Leaf Egg a Day

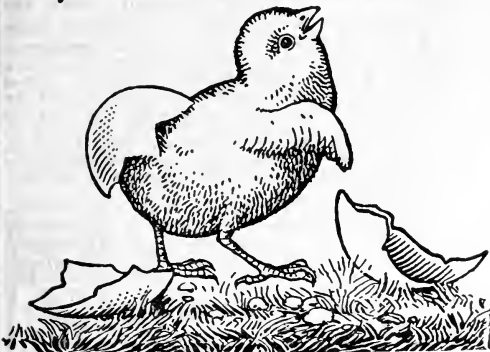
Experience has shown that better results can be obtained by feeding poultry well-balanced feed, and feeding a greater proportion in mash form either in a dry state or slightly moistened. It therefore becomes necessary to feed a well balanced mash high in protein. Clover Leaf Egg A Day is compiled on an approved formula and is without doubt one of the best mashes on the market.

Price, 80-lb. bag.....\$1.50

Alfalfa Poultry Greens

It is well understood that alfalfa meal is ground alfalfa hay, while the poultry greens are secured as the leaves fall from the handling of the alfalfa, consequently they contain much less fiber and are a much richer food. 50-lb. bag, \$2.50.

Ryde's Startrite Chick Feed



Ryde's "Startrite" Chick Food is an absolutely safe and complete food on which to start baby chicks. Composed only of the choicest ingredient; sound, sweet grains, containing both animal and vegetable proteins in the correct proportions. It promotes rapid and thrifty growth. It contains a liberal quantity of buttermilk; the lactic acid being very beneficial to baby chicks, and is the one complete food on which you take no chances.

Nothing is too good for Baby Chicks at the start. They eat so little that for the difference of a few cents it pays to buy the best.

5 lbs.	\$0.35	50 lbs.	\$2.25
10 lbs. ....	.60	100 lbs.	4.25
25 lbs.	1.25		

Add postage.

Have-to-Grow

Ryde's Have-to-Grow is all that its name implies and is made up of the same high grade materials as their Startrite and executed with the same painstaking care and is specially prepared with buttermilk, to be fed to chicks after they have attained an age of from six to eight weeks.

25-lb bag, \$1.15; 100 lbs., \$4.00. Add postage.

Alfalfa Meal

The value of some green food for fowls can hardly be overestimated. For a winter feed alfalfa is one of the best for this purpose. It contains more protein, lime and mineral salts in soluble and digestive form than clover, and fowls relish it in either a green or dry state. For producing eggs it has no equal. 100 lbs., \$1.25.

Bone, Granulated

Granulated Bone is made from fresh bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. 100 lbs., \$3.00.

Bone Meal

This is the same as granulated bone, but ground finer, so that it can be fed in a mash or to young chicks. 100 lbs., \$3.00.

Blood—Dried

One great reason why hens do not lay in winter is because they are not supplied the proper elements to produce the yolk of an egg. This can be remedied by the use of Dried Blood. Blood is the highest concentrated form of animal food and prepared so as to include all the elements of the so-called Red Albumen. Use only tablespoonful to six hens once a day. 100 lbs., \$4.25.

Charcoal, Granulated

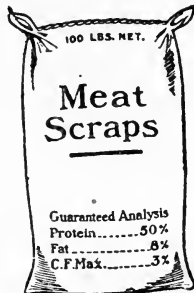
It aids digestion, purifies the blood, regulates the bowels and promotes the general good health of the chicks and adult fowls. Fine granulated, for all mash rations and for small chicks and a coarser granulated for adult fowls. Price, 50-lb. bag, \$1.75.

Meat Scraps

The object in buying Meat Scraps or Meat Meal is to obtain the largest amount of digestible protein possible. Meat Scraps contain from 50 to 65% of protein. Spokane made. \$4.00.

MEAT MEAL—50 per cent protein. Price, Spokane product, \$4.00.

Prices on all poultry feeds subject to change. Full value sent for remittance received.



Shell

The feeding of shells to poultry prevents soft shelled eggs, making the shells strong, and eggs larger and heavier.

Eastern Oyster Shell, per bag, \$1.50.

Western Shell, \$1.25.

LICE KILLERS AND DISINFECTANTS

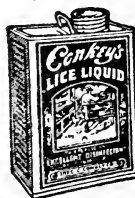
"Black Leaf 40" "painted" full strength (1 oz. to 12 or 15 feet of roost) on the top-sides of the roosts before fowls perch for the night, kills body-lice. Fumes are slowly released, which permeate the feathers. The fumes from one "painting" persist for several days.

1-oz. bottle	\$.35	2-lb. tin	\$3.75
5-oz. bottle	1.00	5-lb. tin	7.00
1-lb. bottle	2.50	10-lb. tin	11.85

Not available.

Buhach

1½-oz. pkg., 25c; 3-oz. pkg., 50c; 6-oz. pkg., 75c; 12-oz. pkg., \$1.25. Add postage.



LICE LIQUID is for painting roosts, fittings, the inside of house, nest boxes and wherever mites congregate. Cans—qt., 60c; 2 qt., 90c; gal., \$1.50 Not available. Express or freight, extra.

Bone, Granulated

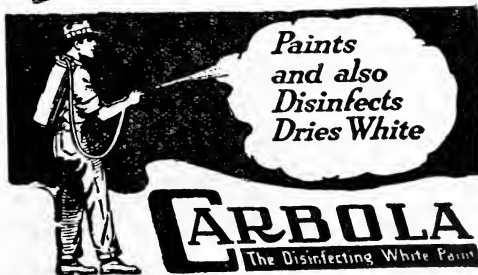
Granulated Bone is made from fresh bones with the moisture and grease taken out, leaving nothing but the phosphate of lime and nitrogen. 100 lbs., \$3.00.

Bone Meal

This is the same as granulated bone, but ground finer, so that it can be fed in a mash or to young chicks. 100 lbs., \$3.00.

Blood—Dried

One great reason why hens do not lay in winter is because they are not supplied the proper elements to produce the yolk of an egg. This can be remedied by the use of Dried Blood. Blood is the highest concentrated form of animal food and prepared so as to include all the elements of the so-called Red Albumen. Use only tablespoonful to six hens once a day. 100 lbs., \$4.25.



THE POWDER OF MANY USES

Carbola is a white paint and powerful disinfectant combined in powder form. It is ready to use as soon as it is mixed with water. It

can be easily and quickly applied to building interiors with brush or spray pump. Disinfects and dries pure white. Does not flake or peel off. One pound covers 100 square feet.

Price, 10 lbs., \$1.75; 50 lbs., \$7.50; add postage.

HEAD LICE OINTMENT is for overcoming and preventing the murderous head louse which "eats up" baby chicks. Packages, 15c, 30c; 20c and 35c, postpaid.

LICE FIX is a preparation in ointment form for fighting body lice. One application lasts a month. Packages, 30c, 60c; 35c and 65c postpaid.

LICE POWDER is for dusting hens, nests, growing chicks and for use wherever body lice must be overcome. Pkg., 30c. Mailing weight 2 lbs. Add postage.

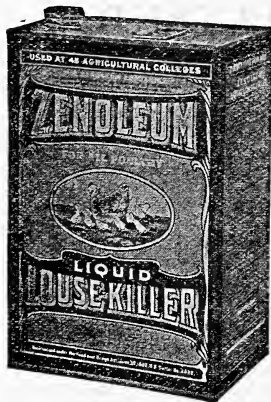
Revenge

Put Revenge in the dustbox. Its reputation as an absolutely safe vermin destroyer convinces that it not only instantly kills, but keeps poultry free from both **HEAD** and **BODY LICE**. It sticks to the fowl—IT WON'T DUST OFF.

1½-lb. can, 65c; 3-lb. can, \$1.00. Mailing weight, 3 and 4 lbs.; add postage.

Tobacco Dust

For use in dust baths or nests. A cheap and effective exterminator of lice. Lb., 15c; 10 lbs., \$1.25; 25 lbs., \$2.50; 50 lbs., \$4.25; 100 lbs., \$7.50.



Zenoleum

One gallon of Zenoleum makes 100 gallons of positive disinfectant. Kills vermin, cures skin trouble. Invaluable as a remedy for diseases of poultry and all live stock. Kills lice and cures mange. Disinfects incubators. Pint, 50c; qt., 75c; ½ gal., \$1.25; gallon, \$2.00. Not mailable. Express or freight extra.

Poultry Remedies

Conkey's

Conkey's Poultry Remedies are amongst the oldest on the market, and during all these years their quality has never been questioned, as they have continued to give satisfaction and results.

CANKER AND BRONCHITIS—Checks cancerous growths and sores and soon restores the bird to normal. This remedy is Conkey's Specific for bronchitis. Also desirable in treating individual cases of Roup and for use at shows when birds develop colds. Package, 60c; postpaid, 65c.

CHOLERA—So-called cholera, bowel troubles, indigestion, diarrhea and kindred ailments often kill a whole flock in a few days. Diarrhea, a drowsy, listless appearance and great thirst—these are the signals to put Conkey's Cholera Remedy in the drinking water. Package, 30c, 60c; postpaid, 35c and 65c.



GAPE—Gape worms accumulate in the windpipe and choke the chick to death. Conkey's Gape Remedy comprises two powders—both in the same box for one price—one sifted over chicks causes them to dislodge the worms in windpipe by coughing, the other is a tonic powder which is mixed in the feed—to help the bird build up its resisting powers and retain its vitality. 30c, 60c; postpaid, 35c, 65c.

LAXATIVE—Wherever a laxative or purgative is needed this remedy is just the thing for birds—by varying the dosage you can produce either a mild or strong effect. Packages, 30c, 60c; postpaid, 35c and 65c.

LIMBERNECK REMEDY—For ptomaine poisoning. Packages, 60c; postpaid, 65c.



ROUP—When birds sneeze, froth in eyes, or run at nose put Conkey's Roup Remedy in the drinking water. Sick birds doctor themselves and others are protected from catching the disease. Better still, always at the first sign of "roupy weather," place Conkey's Roup Remedy in fountains—it's a great preventive.

Packages, 30c, 60c; \$1.20; 1½ lb. can, \$2.50; 5-lb. can, \$5.75; or postpaid, 35c, 65c, \$1.25; \$2.60, \$5.95.

ROUP PILLS—Packages, 30c, 60c; postpaid, 35c and 65c.



SCALY LEG—Applied to birds' legs will in a few treatments kill the parasites responsible for the trouble and heal up the legs with a healthy lustre. Package, 30c; postpaid, 35c.

SORE HEAD (Chicken-Pox)—Little brown spots appear on comb, face and wattles. Under these is a pocket of virulent pus. Apply Conkey's Sore Head Remedy. Package, 30c and 60c; postpaid, 35c and 65c.



WHITE DIARRHEA—As a preventive of bowel troubles, white diarrhea and other digestive complaints, it has given great satisfaction for many years. Once started diarrhetic conditions often sweep away the whole hatch. This remedy is also recommended as a preventive measure and for treatment of coccidiosis. Packages, 30c, 60c, \$1.20; postpaid, 35c, 65c, \$1.25.

Lee's

CAPSULES—An Insoluble Capsule carrying a triple combination worm medicine for Tape worms, Round worms and Pin worms. Being insoluble, it passes through the mouth, throat, crop and stomach of the fowl to the gizzard where it is ground up like a grain of corn, pouring the full strength, undiluted medicine directly into the intestines upon the worms.

GIZZARD CAPSULES do not cause sickness or depression if used according to directions on

birds that are in normal health except for worms.

Adult		Chick	
50 capsules	\$1.00	50 capsules	\$.50
100 capsules	1.75	100 capsules .....	.90
250 capsules	4.00	250 capsules	2.00
500 capsules	7.00	500 capsules	3.50
1000 capsules	12.00	1000 capsules	6.00

Postpaid.

FLU-KOFF EMULSION is a cough syrup which greatly helps to allay cough, reduce temperature and overcome irritation and inflammation. Especially recommended for use with Vapo-Spray in very severe cases of Bronchitis. Give in wet mash or soaked oats.

12-oz. bottle	\$1.25	1/2-gallon bottle	\$3.75
32-oz. bottle	2.25	1-gallon bottle	7.00

Not mailable.

GERMOZONE

Keeps Chickens Healthy



GERMOZONE, without a doubt, is the most widely used poultry remedy on the market today. Its unusual popularity is due entirely to its merit. It is especially valuable in preventing and controlling the diarrhoeas and digestive disorders of little chicks and grown fowls. The regular use of Germozone in the drinking water every other day is a big factor in preventing disease among poultry. Use it for Bowel Complaint in little chicks; for Cholera, Roup, and other diseases among the older fowls.

4-oz. bottle	\$.40	1/2-gallon bottle	\$2.50
12-oz. bottle .....	.75	1-gallon bottle	4.50
32-oz. bottle	1.50	Not mailable.	

VAPO-SPRAY is a compound of healing oils. It is simply wonderful for the treatment of colds which occur very frequently among poultry during the late Fall and Winter months. Spray it in the air of the poultry house at night. The chickens breathe the vapors given off, which produce almost instantaneous relief. The entire flock can be treated as easily as one bird.

32-oz. can	\$.75	1-gallon can	\$2.25
1/2-gallon can	1.25	Not mailable.	



NON-PIKK will, if used in time, prevent toe-picking, rump-picking, feather-pulling—cannibalism. It is as effective on old birds as it is on young. Just treat the birds and return them to their pens and watch them get their lesson—no taste and they never forget. It is repulsive to the taste, but not injurious.

At the first sign of toe-picking, etc., apply a small amount of NON-PIKK on the wings and tails of several birds in each pen. Also stops feather pulling in song birds.

1 oz.	\$.25	1/2 lb.	\$1.00
1/4 lb. ....	.75	1 lb.	1.50

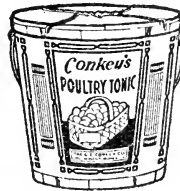
Peat Moss



Peat Moss is a powerful absorbent and readily takes 14 to 15 times its own weight in water. Peat Moss should be spread evenly on the floor from an inch deep for chicks to three or four inches deep for full-grown birds. Bale weighs about 150 lbs. Price per bale, \$3.00.

Poultry Tonics

POULTRY CONDITIONER—For general run-down condition; a fine general tonic during the moulting season or after recovery from any disease. Pkg., 30c; weight, 10 oz.; postpaid, 35c.



Conkey's Poultry Tonic fills the egg basket in spite of weather. It is not a food, but a tonic to be mixed with the regular feed during seasons when fowls get sluggish and want to loaf instead of lay.

	Price	Net Weight	Gross Weight
Package	\$.30	1 1/2 lbs.	1 3/4 lbs.
Package .....	.60	3 3/4 lbs.	3 3/2 lbs.
Package	1.20	7 lbs.	7 1/2 lbs.
Pail	2.25	12 lbs.	14 1/2 lbs.
Pail	3.75	25 lbs.	29 lbs.

Add postage.

Cod Liver Oil and Yeast



By supplying needed vitamins, cod liver oil and yeast, banish leg weakness and other chick troubles, promote rapid and vigorous growth and keep hens in the pink of condition, able to produce a heavy lay.

Conkey's Y-O, which is a combination of yeast and cod liver oil made by a special patented process, solves the problem in an economical way. The product comes in the form of a

dry chocolate-brown powder, which is free running and readily mixed with any poultry mash.

	Price	Net Weight	Gross Weight
Package	\$.60	1 lb.	1 1/4 lbs.
Package	1.10	2 lbs.	2 1/4 lbs.
Package	2.25	5 lbs.	5 1/2 lbs.
Package	9.00	25 lbs.	30 lbs.

Add postage.

Cod Liver Oil

Recent studies in the science of nutrition show that certain Vitamins are necessary for proper growth, body maintenance, and reproduction. Of the known Vitamins, the following are important in poultry feeding:

Vitamin "A" is a growth producing Vitamin and is also essential for the maintenance of disease resistance.

Vitamin "B" is also necessary for proper growth. A lack of it promptly prevents growth.

Vitamin "D" is the one which prevents or cures leg-weakness or "rickets" in young chicks

Price per gallon, \$1.65, when we furnish container; \$1.50, when customer furnishes container. Put up in glass gallon jugs. Not mailable.

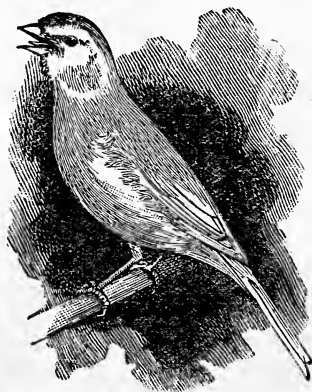
Poultry Pepper Compound

This is a splendid tonic at all times. A small amount sprinkled in with a hot mash will stimulate the circulation and increase egg production. Lb., 30c; 5 lbs., \$1.20; 10 lbs., \$2.30; 25 lbs., \$6.50; add postage.

Bird Seed

MIXED—Per lb., 15c.
CANARY—Per lb., 15c.
HEMP —Per lb., 15c.
MAW—Per lb., 25c.
RAPE, SWEET—Per lb., 20c.
MILLET—Per lb., 15c; 2 lbs., 25c.
CUTTLE BONE—Two for 5c.
SUNFLOWER—Per lb., 15c.
All bird seed recleaned.
Add postage on all bird seeds.

BIRD SPECIALTIES



BATH DISHES—Made of porcelain, sanitary. Price, 20c; postpaid, 25c.

BIRD BITTERS—A remedy for nearly all the diseases of cage birds. 30c; postpaid, 35c.

BIRD MANNA—Keeps cage birds in constant song, improves their plumage and prevents disease. 15c; postpaid, 20c.

BIRD SAND—Pkg., 2 lbs., price 20c; add postage.

MITE-POWDER—To free the bird from mites, blow a little of the Mite Powder under the

feathers of the bird in the evening by means of an insect powder gun.

MOULTING PEPPER—When fed during moulting season it produces red-tinted feathers. Price, 30c; postpaid, 35c.

NESTS—Very convenient and suitable. Price 15c; postpaid, 20c.

NESTLING FOOD—Special preparation and very highly recommended. Price, 30c; postpaid, 35c.

NESTING HAIR—Much better than any substitute. Price, 20c; postpaid, 25c.

ORANGE COLOR FOOD—Deepens and intensifies the natural color of the plumage. Feed to young birds after they are eight weeks old. Old birds during the moulting period. Price, 30c; postpaid, 35c.

SONG RESTORER—A treat and tonic for canaries, linnets, and all seed-eating birds. 25c; postpaid, 30c.

Booklet on cage birds, free on request.

POWDER GUNS—25c; postpaid, 30c.

DOG BISCUITS

PUPPY BISCUITS (The Standard Puppy Food)—A perfect and whole food for puppies of all breeds. Puppies should be started on these biscuits when about one month old and they should be continued until such time as their teeth become sound and strong, usually when they are about six months old. Pkt., 50c; mailing weight 3 lbs. Add postage.

DOG BISCUITS—The analysis of these biscuits shows that they are, weight for weight, equal in nourishment to fresh raw beefsteak and superior to it as a food for dogs. The standard dog food; a staple and constant food for all breeds of dogs. Square biscuit: Pkt., 40c; 5 lbs., 85c; 10 lbs., \$1.65; 25 lbs., \$3.50; 50 lbs., \$6.75; 100 lbs., \$13.00.

Oval Biscuit: Pkt., 50c; 25 lbs., \$3.75; 50 lbs., \$7.25; 100 lbs., \$14.00.

Fibo biscuit oval: Pkt., 50c; 25 lbs., \$4.25; 50 lbs., \$8.00; 100 lbs., \$15.75.

Kibbled biscuit: 10 lbs., \$1.65; 25 lbs., \$3.75; 50 lbs., \$7.00; 100 lbs., \$13.00.

Cat biscuit: Pkt., 50c.

Catnip leaves, 25c, postpaid.

Mailing weight, pkgs., 3 lbs.; mailing weight of bags, 1 lb. more than their priced weight; add postage.

Booklet, Spratt's Dog Culture, mailed on request.

DOG REMEDIES—CLAYTON'S



BOOK ON DOG DISEASES—AND HOW TO FEED—FREE

BLOOD PURIFYING AND COOLING PILLS—Especially useful in Eczema and all skin diseases. 60c.

CHOREA is an affection of the nervous system. Tablets, 60c.

COUGHS—Cough Remedy, liquid, for coughs and colds from whatever cause. 60c.

DIARRHOEA—Diarrhoea Remedy, tablets; very effective. 60c.

DISTEMPER—Distemperine tablets, for distemper. 60c.

FLEAS—Cooline Dog Wash, for fleas and for a disinfectant. 40c.

Cream soap, for fleas and washing dogs. 35c.
Kiliflea soap, for fleas. 35c.

INDIGESTION—Digestive tablets, for all forms of indigestion. 60c.

Laxative pills. Act directly on the liver and keep the bowels in good condition. 60c.

MANGE—Mange Remedy. Best remedy known for this disease. 60c.

Skin lotion, for all skin diseases. 60c.

WORMS—Vermifuge (soft capsules), also liquid. Can be given to small puppies, as well as dogs. 60c.

Worm pills. Composed of the best remedies known for the expulsion of worms. 60c.

RUNDOWN CONDITION—Condition pills, with pepsin. A very reliable remedy in all rundown conditions. Also very valuable in cases of distemper. Price, 60c.

CLAYTON'S DOG REMEDIES have long had a reputation for being very dependable, and they are generally considered as being the most desirable.

Add 5c to quotations if forwarded by mail. Booklet on care of dogs, free on request.

A complete line of dog collars, harness, muzzles and leads. Different sizes and prices.

Collars from 10 inches to 22 inches in length and prices from 60c to \$4.00.

Harness from 14 inches to 28 inches and prices from \$1.25 to \$4.75.

Leads 48 inches—chain leads, 40c; leather leads, 45c to \$1.20.

Muzzles—small and medium. \$1.10; large \$1.20. Add 5c to above prices for postage.

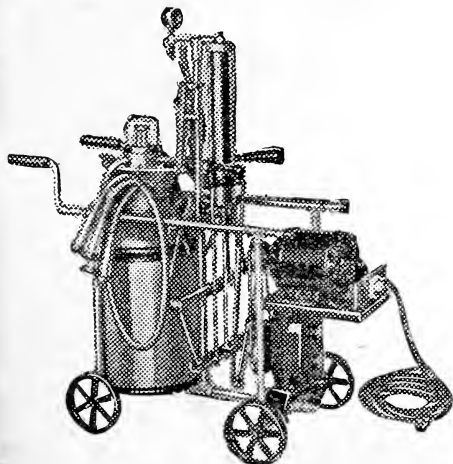
FISH FOOD

WAFER FISH FOOD—This, as its name implies, comes in wafer form and is a highly nutritious preparation which is eagerly eaten by gold fish and other fish. Price, 20c; postpaid, 25c.

Dairy Supplies

The Page Milker

This hand operated model now brings machine milking within reach of every farmer. Just move it in and start milking—no installation. Does the work and does it right.



Electric

ELECTRIC

Here's the milker for the man who has electricity. Wheel behind the cows, turn on the electric switch and attach the teat cups for

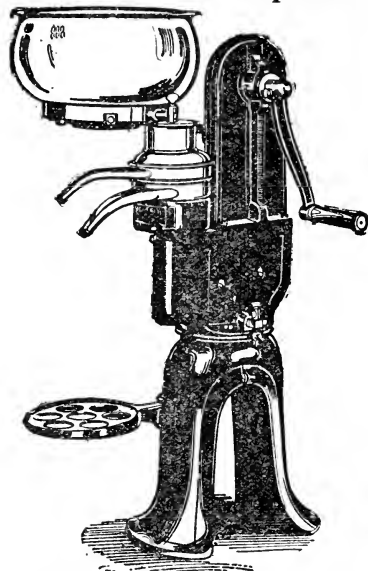
milking. The machine does the work, does it perfectly and with less bother and fuss than any other milker on the market.

GAS

Here's the milker for the man who wants a power milker and has no electricity. A small compact unit requiring no installation and still does exactly the same work as the big elaborate power installations and does it better.

Remember all these models are portable. Nothing to install. No fuss, no bother, nothing to build or fit into your barn. Will be glad to quote if you advise style you are interested in.

Renfrew Cream Separator



The Renfrew bowl is open, sanitary and simple. It has few parts to wash. The boxed wings direct the flow of milk to the bottommost discs, making the whole milk travel the greatest possible distance under pressure for the required length of time and ensures complete separation. That's why it saves 99 99-100 per cent of the butter fat.

A skimming record of 99 99-100.

Bowls interchangeable.

Simplicity of parts.

Smoothness of operation.

Self-oiling system.

Ease of cleaning.

No.	Capacity.
2	350
4	450
6	600

Guaranteed in every respect. If not entirely satisfactory money refunded.

Send for descriptive circular.

SEPARATOR OIL

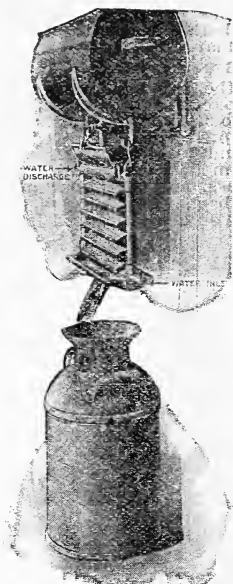
Standard, gallons	\$1.25
Standard, half gallons	.75

MILK COOLER

The Conical is a rapid cooler, conical, reducing the temperature of the milk in one minute nearly to the temperature of the cooling medium. Can be used with any cooling medium, either running water, ice water, or, if a very low temperature is not required, ordinary well or spring water. The top is removable so that ice may be put directly into the cooling drum.

Cap'y of Cap'y of
Milk Water
Rec'v'r Rec'v'r Number

No.	Gal.	Gal.	of Cows.	Price.	Wt.
No. 2	4½	12	15	\$13.00	25
No. 3	5½	20	25	15.50	35



JUNIOR

CANS

OHIO—This can is made with a single neck and is fitted with the popular outside bottom loop. It has round handles and will be found a very satisfactory can, as it is strong, durable and will withstand very rough usage.

Price, with cover as shown in cut:

5 gallons	\$4.00	Weight, 11 lbs.
10 gallons	5.00	Weight, 17 lbs.

MILK CAN LINKS—Less than 100, 5c each; 100, \$4.00; 500, \$17.50; 1,000, \$30.00.

MILK CAN SEALS

Seal your cans; insure yourself against loss at a very small cost.

Lead, single wire, 100, 50c; 500, \$1.50; 1,000, \$2.50. Weight 6 lbs. per 1,000.

Seal press, each, \$2.75; weight, 2 lbs.; add postage.

DELIVERY—Side handle, cover chained to can; well made and durable.

	Wt.	Price.
1 Gallon City Delivery....	3 lbs.	\$2.00
2 Gallon City Delivery....	4 lbs.	2.25
3 Gallon City Delivery....	4 lbs.	2.50
Add postage.		
2 Gallons St. John	3.00	7 lbs.
3 Gallons St. John	3.50	8 lbs.
Add postage.		



Giant Golden Bantam Corn. Large, yellow ears, fine flavored. Productive. Produced from original strain. A very profitable variety for the market.

JUNIOR—This cooler is of tin construction and is as strong and durable as it is possible to construct it.

No.	Capacity per Hr.	Price
A	20-gal.	\$35.00
B	40-gal.	39.50
C	60-gal.	47.50



PAILS



P8114

P1114—Reinforced ears, extra heavy wire in top, coppered bail, natural finish bail wood, IX charcoal plate. Flaring pattern. 14 quarts. Weight, 3 lbs.

Price, 90c; add postage.

P1214—Same as P1114 but IXX charcoal plate. 14 quarts. Weight, 3½ lbs. Price, \$1.10; add postage.



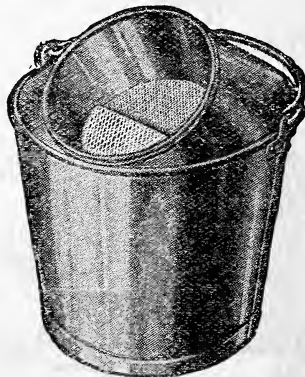
P1114

P5214 — Reinforced ears, heavy steel bail. Straight pattern IXX charcoal plate, 14 quarts. Weight, 3½ lbs. Price, \$1.00; add postage.

P7214—Reinforced ears, heavy steel bail, sanitary soldered inside and outside. Straight pattern IXX heavy charcoal plate, 14 quarts. Weight, 3½ lbs. Price, \$1.25; add postage.



P7214



The STERILAC PAIL is so constructed that the dirt dropping into the opening is caught on the dirt shoop or screen, and not on the milk strainer, which is protected from falling dirt by the top part of the pail. The milk does not fall vertically, but slants toward the milker, passing above the dirt screen to the strainer. Price, \$4.50. Weight 5 lbs. Add postage.

Cream Cans

1620 — Heavy, seamless outside cover. Heavy ears. Coppered bail. Natural finish bail wood. Cover without handle. Rounded bottom. No gauge or faucet. IX charcoal plate. 20 quarts. Wt. $3\frac{1}{2}$ lbs. Price, \$1.50; add postage.

P17220—Heavy seamless inset cover, heavy ears, coppered bail, natural finish bail wood, cover with handle, flat bottom. With gauge and faucet. IXX charcoal plate. 20 quarts. Weight, $5\frac{1}{4}$ lbs. Price, \$3.25; add postage.



1620

STRAINERS



Heavy, seamless. Body and foot drawn from one piece. Heavy wire around top. Reversible wire ring to hold cloth.

No.	Capacity	Price	Weight
P1934.....	4 quarts	\$1.25	$1\frac{1}{2}$ lbs.
P1936.....	6 quarts	1.40	$1\frac{3}{4}$ lbs.
P19712.....	12 quarts	2.00	3 lbs.

Add postage.



Wire Spring,
50c



Brass Wire Cloth,
50c



Perforated Tin,
50c.

P19412—Extra heavy seamless, heavy wire around top; sanitary soldered. Equipped with removable brass wire cloth, perforated tin disc and wire spring. 12 quarts. Price, \$2.00. Wt., 3 lbs. Add postage.



P19514 — Same as P19412 but equipped with one flat and one convex perforated tin disc and wire spring. 14 quarts. Price, \$2.40. Weight, $3\frac{1}{2}$ lbs. Add postage.

P19514

MILK AND CREAM SCALE

CHATILLON SPRING BALANCE

This scale is specially made for weighing milk in pails. The dial is divided into ounces. The indicator is adjustable, so that it can be set back to take out weight of pail. Each scale carefully tested.

30 pounds capacity	\$7.25
60 pounds capacity	9.50
120 pounds capacity	12.75

Mailing weight, 3, 4, and 6 lbs.; add postage.



Dazey Churn

The dasher in conjunction with the square corners of the receptacle, produces a thorough and scientific agitation making it possible to churn in 6 to 15 minutes.

Perfectly sanitary, the receptacle being non-absorbent, and no cracks to harbor the cream and become rancid.

Holds	Churns	Material	Price	Weight
4 pints	2	Glass	\$2.00	8 lbs.
6 pints	4	Glass	2.50	10 lbs.
8 pints	6	Glass	3.25	12 lbs.
2 gallons	1	Metal	5.25	14 lbs.
3 gallons	$1\frac{1}{2}$	Metal	6.75	18 lbs.
4 gallons	2	Metal	8.25	20 lbs.

Add postage.

GLASS JARS FOR CHURNS

Size.	Price.	Wght.
4 pints.....	\$0.75	8
6 pints.....	1.00	10
8 pints.....	1.30	12

Add postage.

All glassware packed carefully, but safe delivery not guaranteed.

TURBINE BOTTLE WASHERS

The 20th Century

This bottle washer is made with a new gearless turbine, the speed being controlled by the governor. When the speed of the turbine reaches a certain point the governor operates to prevent the speed exceeding the limits of safety. This governor is in a separate case to keep out the moisture, which would have a tendency to cause the bearings to rust and cause it to act too slowly. The cover to this case can be removed in a moment and the speed adjusted at any desired point.

Price, \$25.00.

Wizard Butter Worker

This style butter worker is a favorite with many. Butter is placed in the tray, salt added then worked by turning the crank, which causes the fluted roller to travel to and fro.

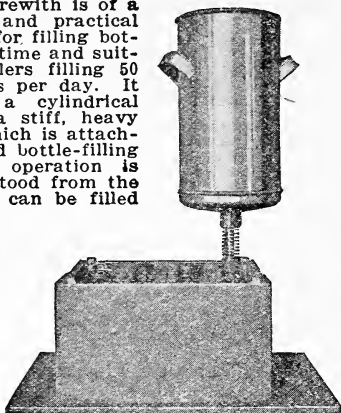
No. 3—Size, 17×27 in. and 3 in. deep inside; capacity, 20 lbs.; weight, 25 lbs. Price, \$7.50. Add postage.

Golden Gleam Nasturtium, Page 26.

Bermuda and Sweet Spanish Onion Plants. Page 36.

SINGLE VALVE FILLER

The cut herewith is of a very simple and practical bottle filler, for filling bottles one at a time and suitable for dealers filling 50 to 300 bottles per day. It consists of a cylindrical can having a stiff, heavy bottom to which is attached a standard bottle-filling valve. The operation is easily understood from the cut. Bottles can be filled in delivery cases or when setting on table or bench. Fills all bottles to an even height, no topping or re-filling. Valve can be taken apart for cleaning in less than five seconds. Price, tin can, no case furnished. \$12.50.

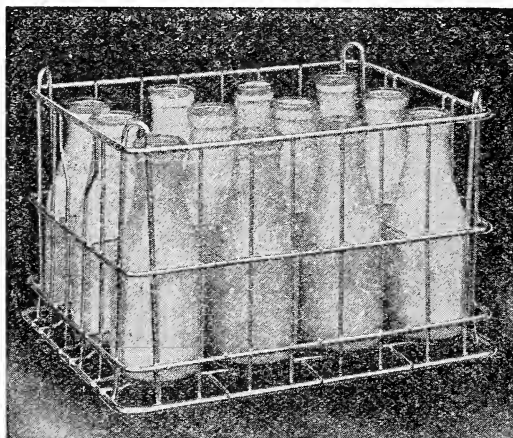


DELIVERY CASES

Wood

12-quart, \$1.75; weight, 13 lbs.; add postage.
20-pint, \$1.75; weight, 11 lbs.; add postage.
20 half pint, \$2.00; weight, 13 lbs.; add postage.

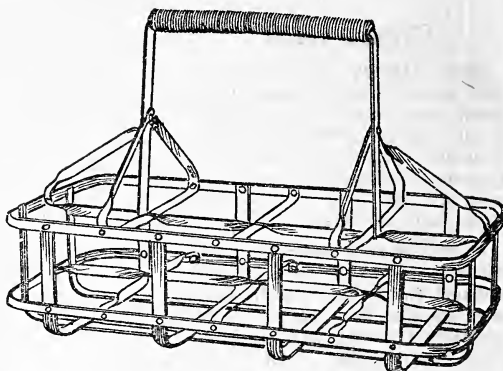
Sanitary Tinned Wire Delivery Cases



This bottle crate is constructed of the best grade basic steel wire and is electrically welded at every intersection of the wires. This process is accomplished under intense heat and great pressure and forms a perfect union of the metal at each joint.

Size	Capacity	Price	Weight
Quarts	12	\$2.25	10
Pints	20	\$2.50	12
½ Pints	20	\$2.75	14
Add postage.			

Bottle Carriers



These Carriers are made from ¾-inch cold rolled flat steel wire, riveted in each intersection and hot galvanized after made. They are constructed for carrying quart bottles and have a lower partition so that they will hold pint bottles also.

Capacity	Price	Weight
8 qts.	2.50	5
Add postage.		

BOTTLE CAPS



Bottle Caps—Stock print same as shown in cut. No lift. Packed in tubes of 500.

500	\$0.30
1M .....	.50
5M	2.50
10M	4.75
25M	11.25

Thousand weigh 2½ lbs. In tubes of 500.
Add postage.

CAPS WITH LIFT

500	\$0.35	10M	\$ 6.00
1M .....	.60	25M	15.00
5M	3.00		

Weight per M, 3 lbs. Add postage.

CREAM CAPS—Same price as no lift milk bottle caps. Same weight. Same size tubes. Add postage.

BUTTERMILK CAPS—Per M., 60c. Weight, 2½ lbs. per M. Add postage.

Ask for price on 50M with your imprint.

MILK BOTTLES

There are various grades of milk bottles on the market and, unfortunately, there are still some people who consider a milk bottle a milk bottle. It is economy to use only the best.

Half Pints, doz., 75c; ½ gross, \$3.25; gross, \$6.00.

Pints, doz., \$1.00; ½ gross, \$4.25; gross, \$8.25.
Quarts, doz., \$1.25; ½ gross, \$5.75; gross, \$11.25.

BRUSHES—Bottles, Milk



No. 72—See description bowl brush No. 72.
Price, 45c.

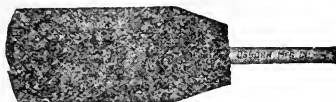
No. 86—See description bowl brush No. 72, with exception of stiff bristle and better quality. Price, each, 60c.



No. 73—See description bowl brush No. 73. Price, 60c.



No. 61—Stiff bristle body and tufts, brush part $3\frac{3}{4}$ inches wide, $2\frac{1}{4}$ inches thick, 7 inches long, hardwood handle, $\frac{1}{2}$ inch diameter; 10 inches long. Price, 40c.



No. 123—Stiff gray hair, brush part 3 inches diameter, tapered to $1\frac{1}{2}$ inches diameter at handle end; 6 $\frac{1}{2}$ inches long; hickory handle, $\frac{3}{4}$ inch diameter, 5 inches long, tapered to $\frac{1}{2}$ inch diameter at end. Price, 55c.

No. 124—Same brush as No. 123, with the single exception of handle being 9 inches long. Price, 55c.



No. 82—Extra stiff gray hair, brush part 3 inches diameter, $5\frac{1}{2}$ inches long, hickory handle, $\frac{3}{8}$ -inch diameter, 10 inches long. Price, 50c.

Bottles, Test

No. 835—For Babcock 10% milk bottles; white bristle; brush part $1\frac{1}{8}$ inches diameter, 3 inches long, length over all $11\frac{1}{2}$ inches. Price, 25c.

No. 833—For Babcock cream bottles; white bristle in body and tuft; brush part $1\frac{1}{8}$ inches diameter, $3\frac{1}{4}$ in. long, length over all 10 inches. Price 25c.



No. 50—Gray horse hair body, gray tampico tufts, brush part $3\frac{1}{4}$ inches wide, $2\frac{1}{4}$ inches thick. Price, 40c.

Bowl

No. 812—Small, black china bristle; brush part $\frac{3}{4}$ -inch diameter, 3 inches long; length over all $8\frac{1}{2}$ inches. See cut spout brush No. 812. Price, 25c.

No. 72—Black china bristle; brush part $2\frac{3}{4}$ inches diameter, 6 inches long; handle 9 inches. See cut milk bottle brush No. 72. Price, 45c.

No. 73—Black China Bristle; brush part $3\frac{1}{4}$ inches diameter, 6 inches long, hickory handle, $\frac{1}{2}$ -inch diameter; 9 inches long. See cut milk bottle brush No. 73. Price, 60c.

Can



No. 08—Stiff Palmetto Fibre; length on face, 10 inches; width on face, 5 inches. Price, 40c.



No. 416—Stiff Palmetto Fibre, brush part 5 inches wide, 4 inches long; length over all, 10 inches. Price, 40c.

MILK COOLER



No. 286—Palmetto fibre, 2 rows wide, length of fibre $1\frac{3}{16}$ inches, curved handle, $14\frac{1}{2}$ inches long. Price, 35c.

Add 5c to all brushes if forwarded by mail.

Spout



No. 812—See description bowl brush No. 812. Price, 25c.



No. 815—Extra stiff black china bristle; brush part 5 inches by 2 inches diameter; length over all, 15 inches. Price, 25c.



No. 818—Black china bristle; brush part $1\frac{1}{4}$ inches diameter tapering to $\frac{3}{4}$ inch, 5 inches long; length over all, 12 inches. Price, 25c.

Hose Cleaning



No. 830—Gray Russian bristle, brush part $4\frac{1}{2}$ inches by $\frac{3}{8}$ inch. Length over all, 40 inches. Price, 35c.

	$\frac{1}{2}$ Doz.	Doz.
All 25c brushes.....	\$1.35	\$2.40
All 35c brushes.....	1.95	3.60
All 40c brushes.....	2.10	4.00
All 45c brushes.....	2.40	4.50
All 50c brushes.....	2.75	5.00
All 55c brushes.....	3.00	5.40
All 60c brushes.....	3.30	6.00

Add 5c to brushes if forwarded by mail.

Average mailing weight per doz., 4 lbs. Add postage.

Teamsters' Aprons

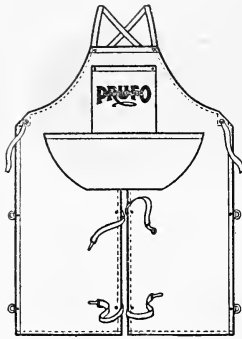
No. T-2—Reinforced front, top pocket, split legs, with two straps, snaps and rings, suspender straps riveted. Each, \$2.00.

Weight, 1 lb. Add postage.

Creamery Aprons

No. C-4—Creamery with patch, 8-oz. duck, suspender straps. 46-in. length, each, \$2.75.

Weight, 2 lbs. Add postage.

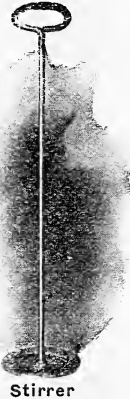


Stirrer and Sampler

Duro Sampler has saucer-shaped disc of steel firmly attached to wrought iron handle of sufficient length to reach bottom of 10-gallon can.

Duro Stirrer is the same as Duro sampler with the exception that there are five holes punched in bowl of stirrer to make stirring more effective.

Sampler and Stirrer, 55c each. Weight, 2 lbs. Add postage.



Stirrer

MILK TESTER

Made in two and four bottle sizes. Each tester includes a full set of bottles, pipette, acid measure, test bottle brush and full directions for making tests.

	Price	Weight
No. 1—4-bottle, milk only.....	\$7.00	16
No. 2—4-bottle, milk and cream....	7.50	18

Order by number. Add postage.

Acid Dippers

17.5 C. C.—Each, 50c; ½ doz., \$2.50; doz., \$4.75.
8.8 C. C.—Each, 50c; ½ doz., \$2.50; doz., \$4.75.

Acid Measure

17.5 C. C.—Each, 25c; ½ doz., \$1.25; doz., \$2.00.
8.8 C. C.—Each, 25c; ½ doz., \$1.25; doz., \$2.00.

Pipettes, Plain

17.6 C. C.—Each, 50c; ½ doz., \$2.50; doz., \$4.50.

Test Bottles

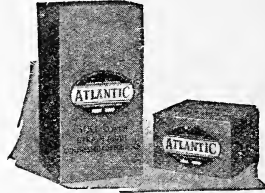
Cream, 6-inch, 9-gram, graduated to 50%.
Cream, 9-inch, 9-gram, graduated to 50%.
Milk, 6-inch, 18-gram, graduated to 8%.
The above three test bottles. Each, 50c; ½ doz., \$2.50; doz., \$4.50.
Skim Milk—Each, 75c.
We do not guarantee safe delivery of glass-ware.

Strainer Cloths

ABSORBENT COTTON—An approved cotton for filtering milk, prepared in rolls, neatly wrapped and sealed. One 1-lb. roll, 75c; add postage.

RED CROSS FILTER CLOTH—Is a specially woven cloth with the nap raised and is intended to take the place of ordinary cotton and strainer cloth, as it combines in itself the qualities of both. It is especially commended for use in filter vats, and can strainers. 1-lb. rolls, 17 in. wide by 20 feet long, each \$1.25; add postage.

Squares, 7x7 inches, packed 50 in box. Price, \$1.25. Weight, 2 lbs. Add postage.



COTTON DISCS

No.	Price.	Wt.
300	\$2.00	2 lbs.
100 .....	.75	1 lb.
300	1.50	2 lbs.

Add postage.

Parchment Butter Wrappers

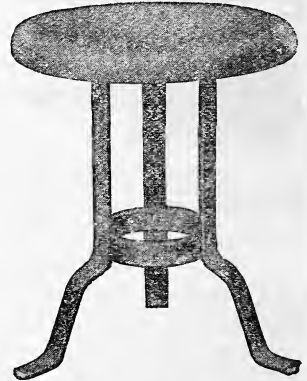
Amount	Plain	Ptd.	Wt.
100	\$0.25		¾ lb.
500	1.15	\$3.40	3½ lbs.
1000	2.00	5.00	7 lbs.

Not less than 500 printed. Size 8x11. Add postage.

Milk Stools

No. 96W has reinforced wood top, while No. 96S has pressed steel top. Very comfortable and will not tip.

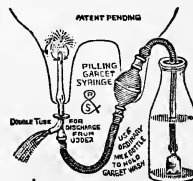
Price, \$1.50.
Weight, 4 lbs.
Add postage.



CATTLE INSTRUMENTS

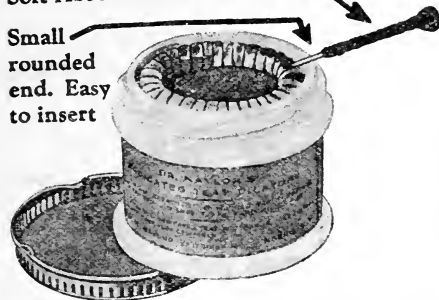


CATTLE TROCER—Will promptly and safely relieve bloat. Every owner of cattle should have one on hand. Easy to use. Price, \$2.00; postpaid, \$2.10.

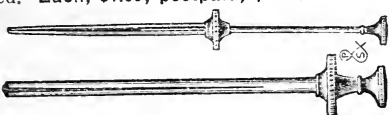


GARGET SYRINGE—Has a special make of rubber tubing, which allows the flow to be continuous instead of intermittent. It also has a double channel metal tube. One part of this tube is to inject the Garget Remedy into the udder and the other part allows the fluid, dead

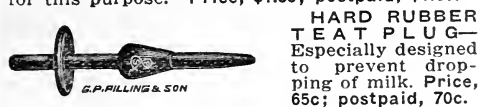
germs and other impure matters to escape from the udder.
Pilling Garget Syringe, Pilling Remedy (30 treatments), Pilling Animal Soap. Price, \$5.00; postpaid, \$5.10.

Soft Absorbent Texture

MEDICATED TEAT DILATORS—Dr. Naylor's Medicated Teat Dilators should be used right at the beginning of the trouble. For hard bunches and obstructions—do not resort to the knife. The dilators used right at the beginning of the trouble will absorb the obstruction. Severe cases or cases of long standing, when it is necessary to cut the teat, use Dr. Naylor's dilators to keep the teat open, until completely healed. Each, \$1.00; postpaid, \$1.10.



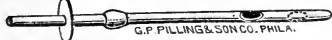
TEAT DILATOR—A finely made instrument, dilates without cutting. Nothing better made for this purpose. Price, \$1.50; postpaid, \$1.60.



HARD RUBBER TEAT PLUG—Especially designed to prevent dropping of milk. Price, 65c; postpaid, 70c.



MILKING TUBE—Plain, plated 3 inches. Price, 40c; postpaid, 45c; 4 inches, price, 50c; postpaid, 55c.



MILKING TUBE—Self-retaining; 3 inches, plated. Price, 55c; postpaid, 60c. 4 inches, 65c; postpaid, 70c.



TEAT EXPANDERS—Of metal, nickel-plated, is intended to expand and enlarge the opening of hard-milking teats. Also at the same time, it expands the milk canal; it is considered the best method of treating hard milkers. Easy to use. Price, 60c; postpaid, 65c.



LEAD PROBE—For enlarging opening in the cow's teats. 30c; postpaid, 35c.



The Pilling Teat Opener is simply used as a reamer or dilator to pass the obstruction. It

does not cut the obstruction. It is highly recommended by veterinary surgeons, dairymen and stock breeders, who have successfully used it for years. Price, \$1.00; postpaid, \$1.10.

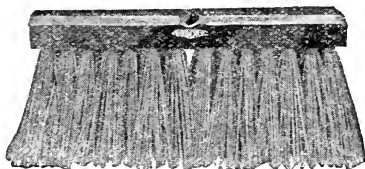


MILK FEVER OUTFIT—Is made according to specifications described in Farmers' Bulletin 45, issued by the Bureau of Animal Industry, U. S. Department of Agriculture, except the rubber bulb. As it rots easily, this is replaced by a patented metal pump which will last a very long time.

Milk Fever Outfit, Metal Pump and Regulator Tube, \$4.00; postpaid, \$4.10.

Pig Forceps

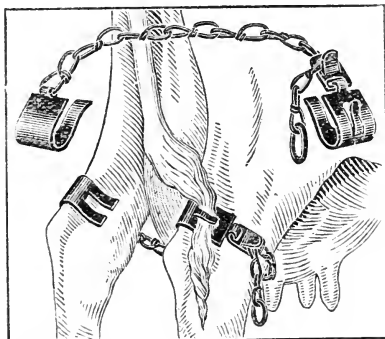
Each, \$4.00; postpaid, \$4.10.

Stable Brooms

Bamboo 14x3 inches, 4 rows wide. Length of fibre 7 inches. Price, 90c. Weight, 5 lbs. Add postage.

Bass, 14x3 inches, 4 rows wide. Length of fibre, 5 1/4 inches. Price, \$1.00. Weight, 5 lbs. Add postage.

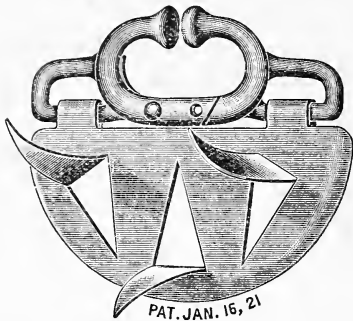
Handles not included in foregoing quotations. Price of handle, 25c. Weight 1 lb. Add postage.

Anti Cow Kicker

So-Boss Cow Hobbles and Tail Holder fits snugly over the tendons of cow's hind legs and is readily drawn into holding position by drawing chain through lock to any desired tension. Automatically locks itself in any position when free end of chain is dropped.

Chain is approximately 22 inches long and has ring attached to free end. Price, 50c. Weight, 2 lbs. Add postage.

Calf Weaner



A perfect, humane and effective device. The hinge construction of this article allows the calf and cow to graze in the same pasture, yet effectually prevents sucking. It is easily applied. Once used always used.
Calf size, 60c; postpaid, 65c.
Cow size, 80c; postpaid, 85c.

Bells

LONG DISTANCE COW BELLS—Made from one piece of metal, no riveting. Smooth, good tone.
Size Price
No. 11—3½x2½x3¾ in. high.....35c
No. 13—4 x3½x4 in. high.....45c

Swiss Cow Bells

No. 1—Bell diameter, 3 in.....65c

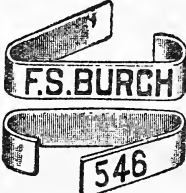
Sheep Bells

Cast malleable iron loop, copper plated. Substantial. Will not crack.
No. 9—2½x2-inch.....30c
Add 10c to each bell for postage.

Cow Bell Straps

Length 3 feet, width 1½ inch.....65c
Sheep Bell Straps.....35c

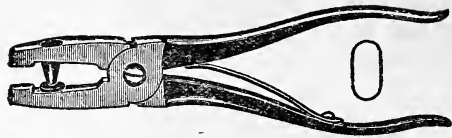
Ear Tags



	Sheep and Hogs.	Cattle.
25 name and number.....	\$1.00	\$1.10
50 name and number.....	1.50	1.75
100 name and number.....	2.00	2.50
500 name and number.....	8.50	11.00
25 name only or number only.....	.90	1.00
50 name only or number only.....	1.25	1.50
100 name only or number only.....	1.50	1.75
500 name only or number only.....	6.25	8.50

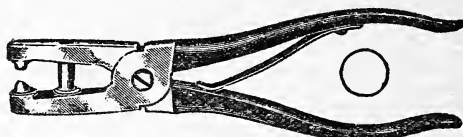
Name can be put on the one side, numbers on the other. Not more than 10 large size letters can be put on hog or sheep sizes, or 15 on cattle. Mailing weight, 100 sheep size, 1 lb.; 100 cattle, 3 lbs. Add 5c per 100 or less number for postage.

PUNCHES
Ear Label Punch



This punch is made for inserting the labels only. It is necessary to cut hole in ear and also to seal labels.
Sheep size. Price, \$1.50; postpaid, \$1.60.
Cattle size. Price, \$1.75; postpaid, \$1.85.

Combined Punch and Plier



This combined punch and pliers are especially made for adjusting the buttons. The cutter makes the necessary hole, and the nipples seal the button.
Each, \$1.50; postpaid, \$1.60.

Ideal Ear Buttons

Are made of pure hardened aluminum, consisting of two parts or sleeves, thus giving an absolute seal that will not become loose. Name and number can be put on without additional cost.
25, \$1.50; 50, \$2.00; 100, \$3.50; 500, \$15.25.

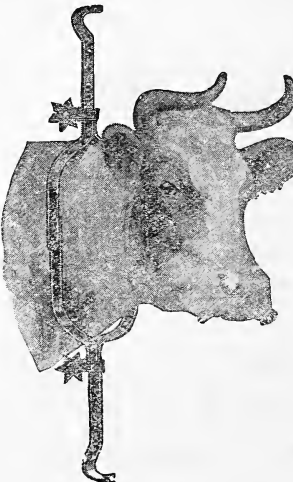
Add 5c per 100 or less number for postage.



Cow Pokes

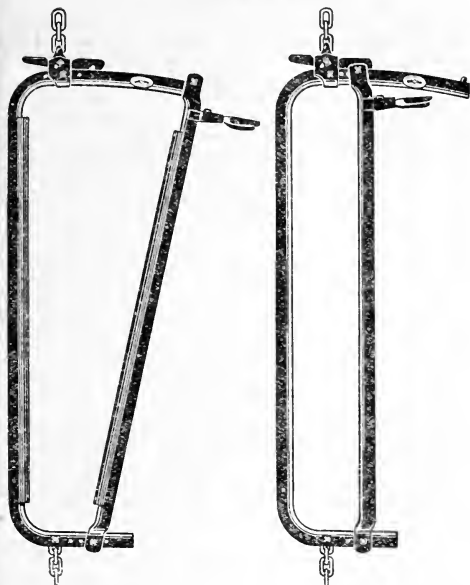
The special grade of band steel used has a rounded edge and makes a very strong yet light poke. Pokes do not interfere with the animal when feeding, grazing, drinking or lying down and will not chafe the neck.

The Fence Guards or Forks are very strong and long enough to properly engage in any kind of fence, including poles or bars. The width is 6½ in., which is the standard width used by the stanchion manufacturers today. They are 33 in. long. The strands in a number of barbed wire fences are 30



in. apart and pokes are long enough to prevent the animal from going through such a fence.
Price, 75c. Weight 3 lbs. Add postage.

STANCHIONS



No. 757W

No. 757

No. 757W—Frame of $1\frac{1}{4} \times 1\frac{1}{4} \times 3/16$ in. "U" steel. All pressed steel fittings. Combination gravity and spring lock. Adjustable from a five inch to an eight inch neck space. Length of fork adjustable. Hard maple woodlinings. Weight 22 pounds. Price, \$3.50.

No. 757—This stanchion is exactly the same as the No. 757-W, shown at the left except that it is not woodlined. Its neck space is adjustable from six to nine inches. Gray enamel finish. Weight 21 pounds. Price, \$3.00.

BRONZE BULL RING



Is made of a special material of hardest and toughest texture, giving a very high and smooth finish. A quality product made to meet the demand of stockmen who require something superior to the ordinary ring. The sharp smooth point cuts a clean hole. Size $2\frac{1}{2} \times 3\frac{1}{2}$ inches.

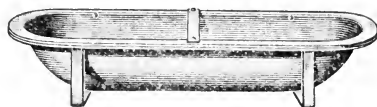
Price, \$1.75; postpaid, \$1.80. Large size, \$2.25; postpaid, \$2.30.

Bull Staff

Constructed of $1\frac{1}{16}$ -inch extra heavy steel pipe with malleable lock hook. Can be operated from two places.

To hook the nose ring into the staff, pull on the slide ring near the head of staff, which will open rock bolt. To release staff from ring, pull on the snap ring in handle of staff. Latch bolt held in place by strong spring. Length 4 feet 9 inches. Weight, 8 lbs. Price, \$5.00. Add postage.

Seamless Hog Trough



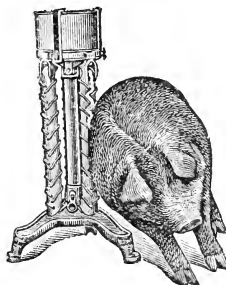
No seams to rust, no corners to accumulate dirt, with smooth round easily cleaned bottom.

Legs snap in place; are rigid and have four holes for securely fastening to the floor if desired.

Length over all 26 inches. Inside 24 inches. Width over all 12 inches, inside 10 inches. Depth over all 5 inches, inside $4\frac{1}{2}$ inches. Holds three gallons.

Price, \$1.50. Weight, 6 lbs. Add postage.

Hog Oiler



Rowe's "New Idea" Hog Oiler is the only one that has no valves or other receptacles in which dirt might collect and interfere with the operation of the Oiler. There is absolutely nothing about it to leak or get out of order.

The Rowe Oiler can't clog or waste oil because it has no valves, no heavy rolling cylinder to stick, and if a hog lies down against the bar he lifts the spoon just once, gets

only one small application of oil and doesn't cause all the oil to run out of the tank, as is the case where oilers depend on the opening and closing of valves. Price, \$9.50.

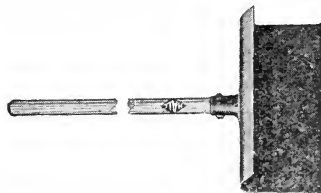


Barn or Walk Scraper

This scraper can be used for cleaning barn floors, alleys and gutters, also for removing snow from sidewalks. Heavy steel blade, $6\frac{1}{2}$ inches high, 13 inches wide. Handle, 58 inches long. Length over all, 64 inches. A push or pull cleaner.

Price, \$1.50; mailing weight, 7 lbs. Add postage.

Curved Barn and Walk Cleaner



Curved blade made of high carbon shovel steel; 4 ft. wood handle. Length over all, 64 inches. Width, 13 inches.

Price, \$1.00; mailing weight, 7 lbs. Add postage.

Stock Feed

The quotation made on stock feed are present market values. These are all subject to change. All feeds will be shipped at prices prevailing when goods are shipped. Write for prices in quantities.

Oil Meal

The advantages of feeding Oil Meal are well known.

Oil Meal\$2.75

Write for prices, stating amount wanted. Prices subject to change.

Ryde's Cream Calf Meal



From practical tests it has been fully demonstrated that as good calves can be raised on Ryde's Cream Calf Meal as can be raised on milk, and by using Ryde's Cream Calf Meal they can be raised much cheaper. This is one of the richest and best substitutes for milk on the market, as it contains everything needed to make calves grow and keep them healthy. 100 pounds makes 100 gallons perfect milk substitute. 25-lb. bag, \$1.25; 50-lb. bag, \$2.35; 100-lb. bag, \$4.50. Add postage.

STOCK REMEDIES

Conkey's

FLY KNOCKER—All the time your stock is pestered by flies you are losing your profits. Use it on your horses and cattle night and morning. Does not injure the hide; odor will not taint milk. Keeps flies off, kills every one it hits, prevents lice and grubs.

Qt., 80c; 2 qts., \$1.35; gal., \$2.00. Not available.

K. O. Fly Spray

Will not taint milk or discolor hair. Kills and repels flies. Gallon can, \$1.50.

Bag Balm

A soothing penetrating salve for all affections of the bag. Price, 60c. Weight, 1 lb. Add postage.

Garget Cure

This is undoubtedly the best article on the market for the purpose for which it is used. Price, 65c. Weight, 2 lbs. Add postage.

Kow Kare

Is different from any other cow remedy. Is specially recommended for barrenness, scours, milk fever, also for abortion and the removal of retained afterbirth, etc. It acts as a tonic for the system, renewing vitality and restoring appetite. It thus increases milk production by promoting better health and vigor. Per can, 65c and \$1.25. Mailing weight, 2 and 4 lbs. Add postage.

Udder Health

A penetrating ointment for garget, caked udder, hard or sore teats, external injuries, harness sores, sprains, etc. It penetrates, soothes, softens, does not gum. Made by General Laboratories, Madison, Wisconsin, manufacturers of the well known B-K. 8-oz. package, 75c. Postpaid, 85c.

Zenoleum

SHEEP SCAB—One part of Zenoleum to seventy parts of water heated to 100 to 110 degrees Fahrenheit. Hold the sheep in this bath for two minutes, rubbing the scabby parts with some rough substance to insure reaching the parasite.

SHEEP TICKS—To 12 gallons of water add 1 pint of Zenoleum. This is equal to one gallon of Zenoleum to one hundred gallons of water. Dip the sheep soon after mixing, and keep them in the water a minute.

LICE ON SHEEP—Dip the sheep, making a solution of one part Zenoleum to fifty parts of water. Repeat in six to eight days.

FLY AND MAGGOTS—Use equal parts Zenoleum and water, and in extreme cases, full strength Zenoleum.

½ gallon\$1.25 Gallon\$2.00
Not available.



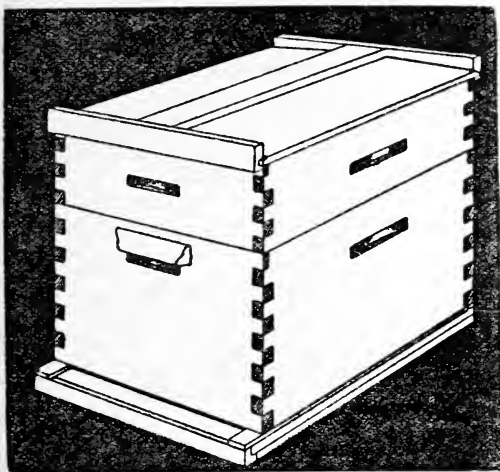
B-K is a disinfectant but not a poison. Much stronger than coal tar disinfectants. Cheaper to use because of its great strength and the amount of dilution that can be used. Odorless and colorless. Largely used in dairies, creameries, hotels, restaurants, etc.. 4-oz. bottle, 35c; 10-oz. bottle, 60c; 32-oz. bottle, \$1.25; 1 gal., \$3.00; 5 gallons, \$12.50. Not available.

Wyandotte

This is the great cleaner and cleanser used by nearly all dairymen and creameries. This is specially prepared for the purpose for which it is used, and the best recommendation it has comes from those who have used it and compared results obtained from the use of this and other similar preparations. It is conceded to be the best preparation of its kind manufactured. 5-lb. bag, 50c; 80-lb. kegs, \$5.75; 280-lb. barrels, \$16.52.

Add postage on the 5-lb. bags. Prices subject to change.

Bee Supplies



DOVETAILED HIVES—The dovetailed hive is now the leading hive, as it contains many of the most desirable features of the various hives for the rapid handling of bees, and is one of the cheapest and best hives manufactured.

Complete hive consists of 1 body, 1 super, 1 bottom board, 1 cover, 8 Hoffman brood frames, 2 wedges for super, 6 section holders, 6 slotted separators.

EIGHT-FRAME HIVE

	Nailed	5-K. D.	Wt. Lbs.	Wt. Lbs.
1 Story	\$2.85	\$12.25	25	115
1½ Story	4.00	17.50	31	150
Bodies Empty .....	.85	3.75	9	40
Hive Covers .....	.85	3.75	9	40
Bottom Boards .....	.85	3.75	8	35

No division boards in hives. Add postage.

TEN-FRAME HIVE

	Nailed	5-K. D.	Wt. Lbs.	Wt. Lbs.
1 Story	\$3.25	\$13.75	32	150
1½ Story	4.50	20.50	42	200
Bodies Empty .....	.95	4.10	12	55
Hive Covers .....	.95	4.10	12	55
Bottom Boards .....	.95	4.10	9	50

No division boards in hives. Add postage.

SUPER-EIGHT FRAME HIVE

	Nailed	5-K. D.	Wt. Lbs.	Wt. Lbs.
Super Comb Honey	\$1.15	\$5.00	9	40
Super Extracting	1.15	5.25	10	45
Super Empty				
Comb Honey .....	.55	2.25	9	40

SUPER-TEN FRAME HIVE

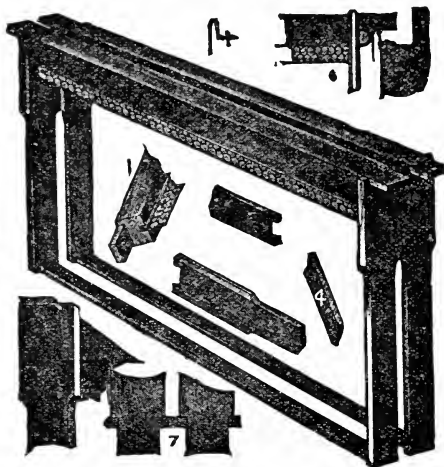
	Nailed	5-K. D.	Wt. Lbs.	Wt. Lbs.
Super Comb Honey	\$1.20	\$5.25	11	50
Super Extracting	1.30	5.50	11	50
Super Empty				
Comb Honey .....	.55	2.75	6	25

No division boards in Supers. Add postage on all bee supplies.

BEE HIVE EXTRAS

	Each	50	100
Division Boards for Brood Chamber	15c	\$6.75	\$13.00
Weight, each, 1 lb. Add postage.			
Division Boards for Deep Supers	15c	\$6.00	\$11.50
Weight, each, 1 lb. Add postage.			
Section Holders, slotted	6c	\$2.50	\$4.50
Weight, 100, 35 lbs. Add postage.			
Slotted Separators	4c	\$1.25	\$2.00
Weight, 100, 8 lbs. Add postage.			
Super Followers	10c	\$3.00	\$5.50
Super Springs	3c	.75	1.25
Spring Steel Hive Tool	60c	postpaid	.70

Brood Frames



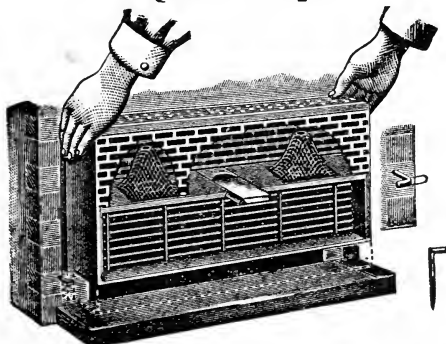
The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames. The top bar is made with a beveled strip which holds the foundation in place, perfectly straight and exactly in center to top bar.

Any particular frame can be removed without thumbing over nearly all the other frames in the hive to get room. Price, each, 8c; 50, \$3.00; 100, \$5.50. Weight, per 100, 55 lbs. Add postage.

Shallow Extracting Frames: Price, each, 8c; 50, \$2.75; 100, \$5.00. Weight of 100, 28 lbs. Add postage.

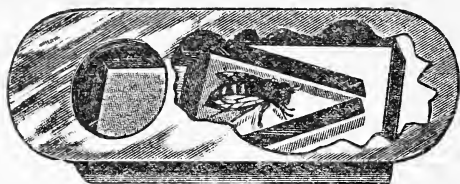
Metal Spacers only, 100, \$1.25.

Alley's Combined Drone and Queen Trap



A perfect non-swarmer arrangement. Weight 1 lb. Each, 8 frame, \$1.00; 10 frame, \$1.10; add postage.

Bee Escapes



Porter

No apiarist can afford to be without bee-escapes. In taking off honey it is the greatest labor saving device that has been introduced in late years. It avoids shaking heavy spurs to get the bees out. Single, 25c; single, with board, 65c; double, 35c; double with board, 75c. Add 5c for postage. When ordering state if wanted for a 8 or 10 frame hive.

Brushes

BRISTLE—This is a strong, durable brush, made of black bristles. Price, 50c; postpaid, 55c.

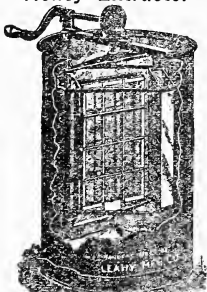
COGSHALLS—This is a sort of whisk broom especially adapted and made for brushing bees. The strands are thinned out and longer, so as to give a soft pillable sweep to the combs. 30c; postpaid, 35c.

Comb Foundation

Size of Sheet.	No. Per to lb.	Per lb.	Per 5-lb.	Per 10-lb.
Medium Brood, $7\frac{7}{8} \times 16\frac{1}{8}$	7	\$0.75	\$3.65	\$7.00
Light Brood, $7\frac{7}{8} \times 16\frac{1}{8}$	9	.80	3.90	7.50
Thin Super, $3\frac{3}{4} \times 15\frac{1}{2}$	28	.90	4.35	8.50
Ext. Thin Super, $3\frac{3}{4} \times 15\frac{1}{2}$	39	.95	4.65	9.00

Add postage.

Cowan's Rapid Reversible Honey Extractor



Two-frame Cowan's Reversible for Regulating Frames.
Price, \$37.50

Extractors

If there is any one thing that is more essential to the successful manipulation of bees, aside from a good bee smoker, that one thing is a good honey extractor. If you have but ten colonies of bees it will pay you to have an extractor. Indeed, it would pay for itself in one good season, as oftentimes the brood combs become so filled with honey that the queen is crowded for room, and this honey should be extracted, and could be sold in the extracted form or used in feeding back for completing partly filled sections. Made of best steel.

Gloves



Gloves for protection of the hands and wrists are almost indispensable.

Canvas with sleeves, medium and large, \$1.25; postpaid, \$1.35.

Honey Knife



Price, \$1.50; postpaid, \$1.60.

Queen Cages



The cover, to insure prompt delivery, is printed in exact fac simile of cut. On the reverse side are printed directions for introducing Queens. 15c each.

Queen Excluding Zincs

This is used between the upper and lower stories, to prevent the queen going up above. It is also used in making entrance guards, queen and drone traps, etc.

For 8-frame hive, unbound, 12×19 , 50c.

For 8-frame hive, wooden bound, $13\frac{1}{4} \times 20$, 60c.

For 10-frame hive, unbound, 14×19 , 55c.

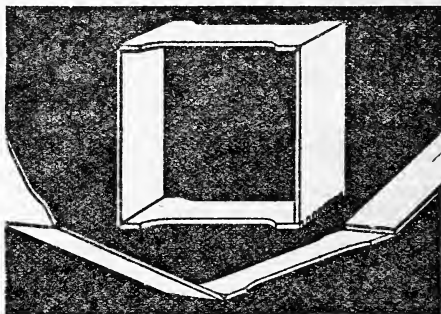
For 10-frame hive, wooden bound, 16×20 , 65c.

8-frame, 7-wire-and-wood, $13\frac{7}{8} \times 20$. Price, 90c.

10-frame, 7 wire-and-wood, $16\frac{1}{4} \times 20$. Price, \$1.00.

Add 10c each for postage.

Section Honey Boxes



SECTIONS—Are made of the choicest white basswood lumber, and all are perfect in finish and free from defects. They are not all snow-white, but vary from that to light cream colors. Price, per 25, 50c; 100, \$1.75; 500, \$7.50; 1000, \$14.00. Weight 100, 6 lbs. Add postage.

Beeswax

Put up in pound cakes.

Price, 80c; postpaid, 90c.

Bee Books

A B C and X Y Z is the most complete and best book ever issued on bees and is equally valuable to the advanced bee keeper as well as to the beginner. Price, \$3.25. Weight 4 lbs. Add postage.

Veils

A great necessity and very cheap. Cotton; silk face, \$1.25; postpaid, \$1.30.

Globe—Has five bars that will keep veil away from head. Price, \$1.60; postpaid, \$1.65.



Globe

Smokers

Every bee keeper needs a smoker.

Acme — This is undoubtedly the best Cold Blast Smoker on the market. It has no tube in the fire box to clog. It throws a large volume of smoke at RIGHT angles to the fire box without a curved nozzle to lessen the blast. In fact, it is the perfection of smokers.

Price, \$1.00.
Weight, 2 lbs.
Add postage.

Acme.

This smoker is, as its name implies, strictly a Higginsville product. It is a hot blast, and has a 3¼-inch fire box, and the nozzle is detachable to admit of filling or cleaning. It has as strong a blast as any smoker made.

Price, \$1.25. Weight, 2 lbs. Add postage.

Higginsville

NEW BINGHAM BEE SMOKER

Patented



BINGHAM DOCTOR—This is a strong, well-made smoker; does not clog up and will burn any fuel. In this smoker the nozzle is attached

by means of an open hinge and fits over the outside of the smoker.

Price, \$1.50. Weight, 2 lbs.; add postage.

Wire

No. 30 Tinned Wire seems to be the most suitable of any for wiring frames.

¼-lb. spools, each, 25c.

½-lb. spools, each, 40c.

1-lb. spools, each, 65c.

Postpaid, 30c, 45c, 75c.

Add postage.

Foundation Fasteners



Parkers

The Parker Fastener is a cheap machine for fastening starters. With a little practice it can be made to work very satisfactorily. Price, 50c; postpaid, 60c.

Wire Imbedder



The teeth are wide and grooved in the direction of the circumference midway across front of teeth, so that the wheel will easily follow the wire. 50c; by mail, 55c.

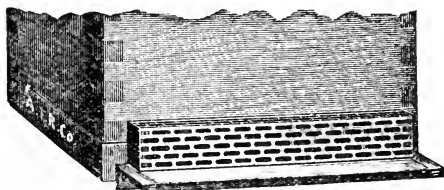
Wax Tube Fastener



Van Deussen

For fastening the foundation sheets to thin top-bars there is nothing better than the Van Deussen wax tubes. It is simply a brass tube half an inch in diameter, six inches long and tapering. This is filled with hot wax and the point is then slowly drawn along the edge of the foundation in contact with the top-bar, leaving a fine stream of hot wax to cement it. 50c; by mail, 55c.

Entrance Guards



These are to admit workers, and to exclude drones. After the drones are all out, fix guards over the entrance and at night the drones can be destroyed. For 8 and 10 frame hives. 30c; by mail, 35c.

Feeder

Simplicity

The Simplicity may be placed at the entrance at night, over the brood frames, by placing on top of the hive or in the brood-nest itself, if a couple of frames are removed. 25c; by mail, 30c.

QUANTITY OF SEED TO ACRE

Alfalfa.....	8 to 15 lbs.	Grass—Orchard.....	20 to 30 lbs.
Artichoke, 1 oz. to 500 plants.....	6 oz.	Horse Radish Roots.....	15,000 to 20,000
Asparagus, 1 oz. to 500 plants.....	1 lb.	Kale, 1 oz. to 150 feet of drill.....	1 lb.
Barley.....	60 to 75 lbs.	Kale, thousand headed.....	1 lb.
Beans, Dwarf, 1 lb. to 100 feet of drill.....	50 lbs.	Khol Rabi, 1 oz. to 150 feet of drill.....	2 lbs.
Beans, Tall, 1 lb. to 150 hills.....	25 lbs.	Kaffir Corn.....	6 to 8 lbs.
Beet, garden, 1 oz. to 50 feet of drill.....	5 lbs.	Leek, 1 oz. to 100 feet of drill.....	4 lbs.
Beet, sugar, 1 oz. to 50 feet of drill.....	5 lbs.	Lettuce, 1 oz. to 150 feet of drill.....	3 lbs.
Beet, Mangel Wurzel, 1 oz. 50 ft. of drill.....	5 lbs.	Melon, Musk, 1 oz. to 60 hills.....	2 to 3 lbs.
Broccoli, 1 oz. to 2,000 plants.....	4 oz.	Melon, Water, 1 oz. to 30 hills.....	3 to 4 lbs.
Brussels Sprouts, 1 oz. to 2,000 plants.....	4 oz.	Millet.....	30 lbs.
Broom Corn.....	12 lbs.	Nasturtium, 1 oz. to 50 feet of drill.....	15 lbs.
Buckwheat.....	45 lbs.	Oats.....	75 lbs.
Cabbage, 1 oz. to 1,500 plants.....	½ lb.	Okra, 1 oz. to 100 eet of drill.....	8 lbs.
Carrot, 1 oz. to 125 feet of drill.....	3 lbs.	Onions, 1 oz. to 100 feet of drill.....	4 to 8 lbs.
Cauliflower, 1 oz. to 2,000 plants.....	3 oz.	Onions, for sets.....	30 to 40 lbs.
Celery, 1 oz. to 5,000 plants.....	1 lb.	Onion Sets, 1 lb. to 75 feet of drill.....	400 lbs.
Chicory, 1 oz. to 100 feet of drill.....	4 lbs.	Parsley, 1 oz. to 300 feet of drill.....	3 lbs.
Clover, Alsylke.....	6 to 15 lbs.	Parsnips, 1 oz. to 200 feet of drill.....	6 lbs.
Clover, White.....	6 to 10 lbs.	Peas, Garden, 1 lb. to 50 feet of drill.....	60 lbs.
Clover, White, for lawns.....	25 to 100 lbs.	Peas, Field.....	150 lbs.
Clover, Red and Crimson.....	12 to 20 lbs.	Pepper, 1 oz. to 100 plants.....	.....
Clover, sweet, hulled.....	15 lbs.	Potatoes.....	400 to 600 lbs.
Collards, 1 oz. to 2,000 plants.....	4 oz.	Pumpkin, 1 oz. to 30 hills.....	3 to 4 lbs.
Corn, Sweet, 1 lb. to 200 hills.....	8 to 12 lbs.	Radish, 1 oz. to 100 feet of drill.....	10 lbs.
Corn, field.....	8 to 12 lbs.	Rape, Dwarf Essex.....	5 to 10 lbs.
Corn, fodder.....	8 to 20 lbs.	Rutabagas, 1 oz. to 150 feet of drill.....	2 lbs.
Corn, Pop.....	8 to 12 lbs.	Rye.....	60 to 80 lbs.
Cress, 1 lb. to 100 feet of drill.....	1 lb.	Salsify, 1 oz. to 50 feet of drill.....	8 lbs.
Cucumber, 1 oz. to 60 hills.....	2 to 3 lbs.	Spinach, 1 oz. to 100 feet of drill.....	8 lbs.
Egg Plant, 1 oz. to 2,000 plants.....	4 oz.	Squash, Summer, 1 oz. to 25 hills.....	3 lbs.
Endive, 1 oz. to 100 feet of drill.....	4 oz.	Squash, Winter, 1 oz. to 12 hills.....	4 lbs.
Flax, for seed, 30 lbs. to acre; for fibre.....	50 lbs.	Sugar Cane.....	10 lbs.
Grass, Brome.....	25 lbs.	Sunflower.....	8 lbs.
Grass, lawn, 1 lb. to 300 sq. ft.....	80 lbs.	Tomato, 1 oz. to 2,000 plants.....	4 oz.
Grass, Kentucky Blue, Canadian Blue.....	20 lbs.	Turnip, 1 oz. to 150 feet of drill.....	2 lbs.
Grass, Sudan.....	10 lbs.	Vetches, Spring.....	60 to 90 lbs.
Grass—Timothy.....	6 to 12 lbs.	Vetches, Winter.....	30 to 60 lbs.
Grass—Red Top.....	10 to 15 lbs.	Wheat.....	60 to 80 lbs.
Grass—Rye, Oat Grass, Fescue Grasses.....	30 lbs.		

WEIGHT OF SEED PER BUSHEL

Clovers:		Barley, Hulled.....	60	Red Top, Hulled.....	36	Liberty.....	50
Alfalfa.....	60	Corn, Ear.....	70	Rye, English.....	25	Siberian.....	50
Alsylke.....	60	Corn, Shelled.....	56	Rye, Italian.....	22	White Wonder.....	50
Crimson.....	60	Oats.....	32	Sudan.....	22	Miscellaneous:	
Red.....	60	Rye.....	56	Tall Meadow Oat.....	14	Buckwheat.....	50-48
Sweet, Hulled.....	60	Wheat.....	60	Timothy.....	45	Flax.....	56
Sweet, Unhulled.....	40	Grasses:		Milletts:		Peas, Smooth.....	60
White.....	60	Blue.....	14	Hog.....	50	Peas, Wrinkled.....	56
Grains:		Brome.....	14	Hungarian.....	48	Onion Sets, Bot-	
Barley.....	48	Orchard.....	14	Japanese.....	40	toms.....	32

USUAL DISTANCE FOR PLANTING

Bushes:		Roots:		Onions, drills, 2 to 3 ft.
Blackberries, 8x4 ft.		Asparagus, 2x3 ft.		Parsnips, drills, 2 to 3 ft.
" Mammoth, 8x12 ft.		Potatoes, 18 in. by 3 ft.		Peas, drills, 2 to 3 ft.
Currants, 5x3 ft.		Rhubarb, 3x4 ft.		Peas, broadcast, acre, 150 lbs.
Dewberries, 8x4 ft.		Sweet Potatoes, 2x4 ft.		Pumpkins, 8x8 ft.
Gooseberries, 5x3 ft.		Seeds:		Radishes, drills, 1 to 2 ft.
Raspberries, 7x3 ft.		Beans, bush, drills, 3 ft.		Salsify, drills, 1 to 2 ft.
Plants:		Beans, pole, 3x3 ft.		Spinach, drills, 1 to 2 ft.
Cabbage, Early, 16x30 in.		Beets, table, drills, 2x2½ ft.		Squash, bush, 3x4 ft.
Cabbage, late, 24x30 in.		Beets, stock, drills, 2x3 ft.		Squash, running, 8x8 ft.
Cauliflower, 2x3 ft.		Carrots, drills, 2x2½ ft.		Trees:
Celery, 6 in. by 4 ft.		Corn, sweet, 2x3 ft.		Apple, 30x30 ft.
Egg Plant, 3x5 ft.		Corn, field, 3x3 ft.		Cherry, 20x20 ft.
Peppers, 18 in. by 2½ ft.		Cucumbers, 4x4 ft.		Peach, 20x20 ft.
Tomatoes, 4x4 ft.		Lettuce, drills, 1x2 ft.		Pear, 20x20 ft.
Strawberries, hills, 1½x3 ft.		Melon, Musk, 5x5 ft.		Plum, 20x20 ft.
" matted rows, 1x3 ft.		Melon, Water, 7x7 ft.		Quince, 20x20 ft.

NUMBER OF PLANTS TO ACRE

Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants	Dist. Apart	Plants
12x 1 in.....	522,270	25x18 in.....	15,520	36x36 in.....	4,840	60x60 in.....	1,745
12x 3 in.....	174,240	30x 1 in.....	209,088	42x12 in.....	12,446	8x 1 ft.....	5,445
12x12 in.....	43,560	30x 6 in.....	34,848	42x24 in.....	6,223	2x 3 ft.....	1,815
16x 1 in.....	382,040	30x12 in.....	17,424	42x36 in.....	4,148	8x 8 ft.....	680
18x 1 in.....	348,480	30x16 in.....	13,068	48x12 in.....	10,890	10x 1 ft.....	4,356
18x 3 in.....	116,160	30x20 in.....	10,454	48x18 in.....	7,790	10x 6 ft.....	726
18x12 in.....	29,040	30x24 in.....	8,712	48x24 in.....	5,445	10x10 ft.....	435
18x18 in.....	19,360	30x30 in.....	6,970	48x30 in.....	4,356	12x 1 ft.....	3,630
20x 1 in.....	313,635	36x 3 in.....	58,080	48x36 in.....	3,630	12x 5 ft.....	736
20x20 in.....	15,681	36x12 in.....	14,520	48x48 in.....	2,723	12x12 ft.....	302
24x24 in.....	10,890	36x18 in.....	9,680	60x36 in.....	2,901	16x 1 ft.....	2,722
24x 1 in.....	261,360	36x24 in.....	7,260	60x48 in.....	2,178	16x16 ft.....	170

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